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The "Nantucket" leaving Boston on the Annual Summer Cruise.

Public Document No. 42

The Commonwealth of Massachusetts

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1921

MASSACHUSETTS NAUTICAL SCHOOL
DEPARTMENT OF EDUCATION

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approved by the
Supervisor of Administration.

The Commonwealth of Massachusetts

Department of Education,
Boston, Jan. 1, 1922.

To the Honorable Senate and House of Representatives.

Gentlemen: — In accordance with section 8 of chapter 350 of the General Acts of 1919, I transmit to you herewith, for the use of the General Court, the annual report of the Massachusetts Nautical School for the year 1921.

Respectfully yours,

PAYSON SMITH,
Commissioner of Education.

The Commonwealth of Massachusetts

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The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION, MASSACHUSETTS NAUTICAL SCHOOL.

REPORT OF THE COMMISSIONERS.

To the Commissioner of Education.

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending Nov. 30, 1921, the thirtieth annual report.

The Foreign Cruise.

The outstanding feature of the year has been the resumption of the foreign cruise, which was replaced on account of the war by a coasting cruise from 1914 to 1920, inclusive.

The "Nantucket," sailing from Boston on May 3, 1921, cruised 9,872 nautical miles, of which 2,356 were under sail alone, visiting Plymouth, England, Brest, Lisbon, Cadiz, Gibraltar, Tangier, Madeira; and returning to Norfolk on August 12, visited Washington, D. C., Yorktown, Philadelphia and Nantucket. The ship arrived in Boston on September 13, having had no sickness during the cruise, and without mishap. As the crew employed by the Commonwealth consisted only of four seamen, the ship was operated both on deck and in the engine room and fireroom almost wholly by the cadets.

Instruction in navigation and steam was carried on during the cruise, and at Philadelphia the cadets spent four days of instruction and observation at the turbine works of the Westinghouse Electric and Manufacturing Company at the invitation of that company, conveyed through Mr. Norris R. Sibley, a graduate of the school.

Cadets admitted and graduated.

During the year 70 cadets have been admitted to the school, 36 in the spring and 34 in the fall, all selected by competitive examination from 191 applicants, the sons of citizens of the Commonwealth. There have been diplomas awarded after two years' instruction to 52 graduates, 26 in the spring and 26 in the autumn. Eighteen have left the school for various causes without completing the course. The average number of enrolled cadets in the school has been 115; each term has begun with the capacity enrollment of 116 cadets.

The graduates of the school during the thirty years of its existence now number 1,005. Notwithstanding the great depression in ocean transportation, nearly all of this year's graduates have obtained positions afloat.

The school catalogue, of which 4,000 copies have been distributed during the year, shows in detail the conditions of admission and the course of study. The mark representing the candidate's final average for the entrance examination is made up by giving equal weight to the subjects of spelling, geography, grammar, history, oral arithmetic, letters of recommendation, aptitude, physical qualifications, and double weight to written arithmetic.

School Finances.

It will be seen by the financial statement found on the last page of this report that the expenses for the year have not exceeded the appropriations. This was only accomplished by careful management, especially during the summer cruise when the "Nantucket" proceeded under sail alone for three weeks, thus effecting a considerable saving of fuel.

In January the Commissioners, acting jointly with the Commissioners of the New York, Pennsylvania and Washington schools, made an effort to have the act of Congress establishing the marine schools amended, increasing the Federal appropriation for nautical schools from $25,000 to $50,000 per year. When the present legislation was passed by Congress ten years ago, it was the intention to reimburse the States for about one-half the expense of the school, which at that time was about

$50,000, whereas it is now approximately $100,000. The Congress has up to date taken no action in this matter, and has now before it a request from the United States Navy Department for a revision of the act of Congress of March 4, 1911, providing that the Commissioners shall make report to the Navy Department of the operations of the school and the amount expended thereon by the Commonwealth, but not providing for an increase in the appropriation. The Commissioners have opposed this legislation, believing the conduct of the school and its operation should remain under the sole control of the Commonwealth as now provided by law. The Commission has had again, together with the other nautical schools, submitted to the naval committee of the House of Representatives their request for an additional appropriation by the Federal government.

Needs of the School.

The Commissioners have set forth in the two preceding annual reports that the space on board ship is inadequate to provide classrooms and at the same time subsist and lodge the officers, crew and cadets during the winter term, and the desirability of suitable classrooms, laboratory and recreation space on shore, and have again included in their estimates a request for an appropriation for a suitable building.

During the past year the Navy Department has added to the equipment of the ship from unused surplus material a refrigerating machine, a dough mixer, and one 20-gallon coffee urn. The Commonwealth has purchased for instruction in compass correction a Beall's deviascope.

Inspections.

The Commissioners have made the usual inspections of the ship and school during the year. The officers, cadets and crew have been in good health and the ship and equipment in excellent condition, the work being maintained at a high standard.

The annual inspection of the Governor and Council took place on Wednesday, Sept. 14, 1921, on the return from the

cruise. His Excellency Channing H. Cox, Lieutenant-Governor Alvan T. Fuller, and all the members of the Council, with but one exception, were present.

In addressing the cadets, Governor Cox spoke as follows: —

We are proud in Massachusetts of the work the Massachusetts Nautical School is doing and of what it has done in the past. I hope to impress on you in these few words the fact that Massachusetts has made an investment in you. We hope to have, as we have had in the past, skilled navigators, men who can sail the ships of our merchant marine.

The men who have so largely gone from this school into the mercantile marine have been a credit to the school and to the State. We all know, and I have no doubt your instructors have told you, of the valuable service the graduates rendered during the war. I hope you will always remember that the men and women of Massachusetts have made somewhat of a sacrifice to make this school possible, and when you go forth from here you will live up to the mark set by your predecessors.

At this time shipping, like every other industry, is going through a period of depression. I believe that Massachusetts will again play a large part in the commerce of the world and carry our flag into the seven seas, which does much to increase the prestige of the country. I would urge you to be always loyal to the old Commonwealth in the service of which we are all enlisted and of which we are a part.

Graduation Exercises.

The spring graduation exercises of the school were held on March 28, the chairman of the Board presiding. Addresses were made by Dr. Payson Smith, Massachusetts Commissioner of Education, and Rev. George P. O'Conor, of the Cathedral Church. Commissioner Clarence E. Perkins presented the prizes awarded by the Alumni Association to Arnold L. Franklin of the seamanship division and John B. Smith of the engineering division. Cadet Arnold L. Franklin responded for the graduating class.

The fifty-fourth graduation exercises were held on Saturday, September 17, the chairman of the Board presiding. The principal address was made by Mr. Winthrop L. Marvin, vice-president and manager of the American Steamship Owners' Association, whose son was a member of the graduating class. Dr. Payson Smith spoke briefly to the cadets before presenting to them the diplomas and certificates. Rev. J. Edgar Park of West Newton made a notable address on presenting the cadets

with the Bibles given by the Massachusetts Bible Society. The prizes awarded by the Alumni Association were delivered by Commissioner Perkins to John C. Hennessy of West Medford, seamanship class, and George A. Vera of New Bedford, engineering class. Cadet J. Blaisdell Wells responded for the graduating class.

Personnel.

Mr. Francis T. Bowles, chairman of the Board during the past five years, was reappointed a Commissioner on July 1, 1921.

Capt. P. W. Hourigan, U. S. N., superintendent of the school from April 26, 1915, to April 30, 1918, and from April 28, 1919, to July 23, 1919, died in Washington on March 24, 1920.

Commander William F. Low, U. S. N., superintendent of the school from Oct. 2, 1902, to March 31, 1911, and from April 25, 1918, to Aug. 31, 1918, died in Washington on March 12, 1921.

The School Record.

During the past year there have been 184 students on the rolls of the school. They came from 80 cities and towns of the Commonwealth, as follows: —

Attleboro	1	Everett	2
Beachmont	1	Fall River	6
Boston	27	Feeding Hills	1
Bradford	1	Fitchburg	3
Brockton	2	Framingham	1
Brookfield	1	Gloucester	2
Brookline	1	Groton	1
Bryantville	1	Haverhill	1
Cambridge	1	Holyoke	6
Campello	1	Hyannisport	1
Cotuit	1	Kingston	1
Danvers	2	Lanesborough	1
Dedham	2	Lawrence	6
Duxbury	1	Lowell	10
East Brewster	1	Ludlow	1
East Dennis	1	Lynn	6
Eastham	3	Malden	1
East Lexington	1	Manchester	2
East Methuen	1	Mansfield	2
Easton	1	Marion	2

Marlborough	3	Rockland	3
Marstons Mills	1	Rockport	3
Medford	6	Salem	1
Melrose	2	Somerville	9
Milton	1	South Hanson	1
Nantucket	1	South Natick	1
Needham	1	Springfield	1
New Bedford	3	Stoneham	2
Newton	2	Swampscott	2
North Andover	1	Swansea	1
North Billerica	1	Wakefield	1
North Carver	1	Watertown	1
North Easton	2	Wellesley Hills	1
Norton	1	Weston	3
Onset	1	Westwood	1
Pigeon Cove	1	Whitman	1
Pottersville	1	Winthrop	2
Provincetown	4	Wollaston	1
Reading	1	Woods Hole	2
Revere	2	Worcester	4

Their previous education was as follows: grammar schools, 2; high schools, 162; academies, 4; technical schools and business colleges, 13; colleges, 3. The average age of the cadets at entrance was seventeen years and ten months. The number of cadets enrolled in the school at present is 116.

Lectures.

The following lectures were given on Wednesday evenings during the winter term: —

Mr. Francis T. Bowles. Subject: The Pilgrims.

Mr. Eugene F. Irwin. Subject: Submarine Signal Apparatus.

Capt. Armistead Rust, U. S. N., Retired (three lectures). Subject: New Graphical Methods in Navigation (illustrated).

Mr. Bevis P. Coulson, Jr. Subject: The Electric Propulsion of Ships (illustrated).

Mr. J. H. King. Subject: Water Tube Boilers (illustrated).

Capt. Elliott Snow, U. S. N. Subject: Stability and Ballasting of Ships.

Prof. Harland T. Stetson (two lectures). Subject: Descriptive Astronomy (illustrated).

Mr. John E. Macy, class of 1896, M. N. S. Subject: Admiralty Law.

Mr. John W. Thompson, class of 1912, M. N. S. Subject: Types of Ships — Ancient and Modern (illustrated).

Superintendent's Reports.

The following are the reports of Capt. Armistead Rust, U. S. N., superintendent: —

Winter Term, Oct. 18, 1920, to March 28, 1921.

Instruction in Navigation.

First and Second Classes.

1. Definitions, the construction and care of charts and symbols and abbreviations used on charts. Description of the various instruments used in navigation and piloting. They were instructed in the use of the three-arm protractor, parallel rulers and dividers in connection with charts. About a week was then spent in the study of tidal currents and tides of the Atlantic coast, using charts of the various localities in conjunction with the tide books and diagrams published by the Coast Survey. In connection with the subject of piloting, the cadets were instructed in the aids to navigation, with their characteristics and upkeep by the Lighthouse Service.

2. A review of their previous work in dead reckoning was given, including the sailings and correction of courses.

3. In nautical astronomy the study began with definitions and diagrams of the celestial sphere, followed by instruction in the care and use of the sextant. Each cadet was examined in reading the verniers of sextants graduated to 10″, 15″ and 20″ of arc.

4. Instruction and working problems in nautical astronomy were then taken up in the following order: —

Meridian altitudes of the sun and stars.

Ex-meridian altitudes of the sun and stars.

Latitude by Phi prime, Phi second method.

Amplitude of the sun for compass error.

Time azimuth of the sun for compass error.

Lines of position: (1) Sumner method — (*a*) chord method, (*b*) tangent method; (2) Marcq Saint Hilaire method of calculated altitude.

5. Practical problems to illustrate the above methods and solutions by computation and graphical methods were taught, and also the problems of great circle sailing, with the study of the constellations and the identification of stars.

6. The cadets were taken on the pier and given practice in taking horizontal and vertical sextant angles.

7. Practical instruction in the compensation of the compass, which will be given much more thoroughly next year with the aid of the deviascope, now on board this ship.

Third and Fourth Classes.

1. Definitions, instruments used in navigation, charts, the different projections, deviation, variation and leeway.

2. The sailings, plane, parallel, middle latitude and Mercator, dead reckoning, course and distance, to find the position.

3. Current sailing, solved by inspection and the parallelogram of forces, laying courses and fixing positions by cross bearings of two objects, bearing and distance of one object, and two bearings of one object with the distance run between the bearings.

4. Definitions relating to nautical astronomy, instruments employed in nautical astronomy, conversion of time, and the use of the nautical almanac, correction of the observed altitude, how to find the error of the chronometer and rate.

5. Latitude by meridian altitude and time sight for longitude.

6. This is more instruction than has been attempted heretofore for the third and fourth classes, the idea being to make the summer cruise more profitable and interesting to these classes, and teach them the practical use of the sextant earlier. Except on the part of one or two, the ground was easily covered.

INSTRUCTION IN SEAMANSHIP.

First and Second Classes.

1. Rules of the road: (*a*) international rules; (*b*) inland rules; (*c*) pilot rules.

2. Handling ships about docks.

3. Laws of storms.

4. Handling steamers in heavy weather, sea anchors, use of oil in a heavy sea.

5. Rules for handling heavy weights.

6. Stowage of cargo.

Third and Fourth Classes.

Third Class. — Nomenclature of anchors and chains, and marking same, carrying out anchors in boats, mooring and unmooring, handling boats under oars and sails, hoisting boats in a seaway, boat's lights and gear.

Fourth Class. — Name and lead of all standing and running rigging; nomenclature of sails, yards and masts. Instruction in helm, compass and log.

Practical Instruction in Seamanship.

1. All classes assisted in unrigging ship at end of the summer cruise, and also in rigging the ship at the end of the winter term.

2. Each member of the first class was required to assist in making an eye-splice and long splice in wire rope, and the first class assisted in overhauling the rigging and sails during the winter and in the general ship's work.

3. The second class was required to lay up sennit for mats, make hand and deck swabs, repair hammocks, and to assist in the ship's work generally.

4. The third and fourth classes were given frequent instruction on the model. They were required to make all the knots, bends, hitches and splices in rope. They made boat fenders and assisted in ship's work.

Ship Construction.

The first and second classes, including the engineers, received elementary instruction in the construction of ships.

Instruction in Engineering.

First and Second Classes.

Properties of metals and fuels, boiler types, boiler details and methods of construction, engine types, engine details and methods of construction, lubrication, condensers, pumps, feed-water heaters and other auxiliary equipment, steam valves and valve gear, indicators and indicator diagrams, propulsion problems, turbines, boiler management and corrosion, inspection and overhaul and methods of repair, water testing by salinometer and chemical means, steaming routine of engine room and boiler room, and miscellaneous engineering calculations.

Third and Fourth Classes.

Transfer of heat, expansion of metals, gases and liquids, laws of Charles and Boyle, action of steam during expansion, expansive work of steam in the cylinder, expansion diagrams, horse-power calculations, clearance and condensation, engine parts and their functions, valves and valve gear, compound engines, boilers.

Instruction in Electricity.

First and Second Classes.

Review, circuits, fuses, circuit-breakers, carrying capacity of wires, power problems, operating problems, details of dynamos and motors, dynamo troubles, and cost problems.

Third and Fourth Classes.

Units, magnetism, simple circuits, resistance, power calculations from Ohm's law, fuses, switches, batteries, bells, etc., short circuits and grounds, dynamos and motors.

Practical Work.

First and Second Classes.

Lathework, boiler overhaul and inspection, upkeep of hull, fitting and adjusting of main engine parts, adjustment of high-speed dynamo engine

parts, packing, overhaul of pumps, dynamos, pipelines, pipe fittings, upkeep of engine department, upkeep of electric light circuits and fixtures, valve setting.

Third and Fourth Classes.

Hull upkeep, painting, boiler cleaning, coal trimming, nomenclature of the engine and fire rooms.

Instruction in English.

First and Second Classes.

1. History of shipping.
2. Physical analysis of the world.
3. Civil government.
4. United States navigation laws.
5. Insurance rules.

Third and Fourth Classes.

1. English grammar (mother tongue).
2. Civil government (Boynton).

Instruction in Mathematics.

I. Arithmetic: —
   1. Percentage.
   2. Ratio and proportion — "rule of three."
   3. Problems concerning work.
   4. Problems in rates meeting and overtaking.
   5. Mensuration.

II. Logarithms: —
   1. The fundamental principles involved.
   2. Use of tables.
   3. Solutions of practical problems.

III. Algebra: —
   1. Addition.
   2. Subtraction.
   3. Multiplication.
   4. Division.
   5. Simple and quadratic equations and problems.
   6. Square and cube roots. Exponents.

IV. Plane geometry: —
   1. Definitions.
   2. Fundamental theorems and problems.

V. Solid and spherical geometry: —
   1. Definitions.
   2. Fundamental theorems.
   3. The spherical triangle.
   4. Mensuration.

VI. Plane trigonometry: —
1. Definitions and functions of angles.
2. Limits and the signs of the functions of angles.
3. The solution of plane triangles.

VII. Spherical trigonometry: —
1. The astronomical triangle.
2. Napier's rules.
3. The solution of spherical triangles.

The Summer Term, April 25, 1921, to Sept. 17, 1921.

THE CRUISE OF 1921.

The "Nantucket" sailed from Boston on May 3, 1921, and, after swinging ship for compass deviations near the Boston Light Vessel, proceeded to Provincetown, Mass., where she anchored that evening. The next morning the ship proceeded to Boston under steam and sail, where she arrived in the afternoon. During the trip to Provincetown and return, the crew was stationed and exercised at fire quarters, collision drill and abandon ship, and the ship prepared for inspection by the Board of Commissioners.

On May 5 the Commissioners came on board and inspected the ship and personnel. Coaled ship on the 6th and received sea stores and fresh provisions on the 7th.

Boston to Plymouth, England.

The "Nantucket" sailed from Boston for Plymouth, England, about 3 P.M., May 9, and arrived at Plymouth about 1 P.M., May 26. For six days of this passage head winds were encountered; for two days only did the ship proceed under sail alone, and for the remaining time sail was carried whenever it would draw.

Upon arrival at Plymouth a boarding officer from the commander-in-chief visited the ship. The Commanding Officer called on Admiral Sir Montague Browning, Royal Navy, commander-in-chief of the Plymouth Station, the United States Consul, Mr. William W. Masterson, and the mayor of Plymouth, Mr. W. S. Knight. These calls were returned. Admiral Browning inspected the cadets, and the mayor delivered a very appropriate address of welcome. The stay at this port was most agreeable.

Plymouth to Brest, France.

The ship sailed from Plymouth on June 3 and proceeded under sail and steam to Brest, France, where she arrived in the afternoon of the 4th. An officer from the commander-in-chief, Vice-Admiral Aubry, boarded the ship, and the Commanding Officer called on Admiral Aubry, the United States Consul, the commandant of the naval school, the superintendent of the dock yard, and the commanding officer of the flagship. All of these calls were returned, and the officials were received with appro-

priate honors. The "Nantucket" was given a convenient berth inside the breakwater, and the cadets were exercised under sail and oars in the boats, in addition to the other routine drills and instruction. The cadets were given ample liberty to visit the city and the points of interest in the neighborhood.

Brest to Lisbon, Portugal.

The "Nantucket" sailed from Brest, France, about 1 P.M., June 9, and arrived at Lisbon, Portugal, about noon June 13; 124 miles were made under sail alone, and the greater part of the remainder was made under steam and sail, the wind being too light to proceed under sail only. On approaching Lisbon a heavy fog was encountered, which made it necessary to anchor outside the harbor for several hours. Upon entering the harbor a boarding officer from the senior officer called on board and extended the civilities of the port; the same day the Commanding Officer of the "Nantucket" called on Capt. Francisco Eduardo de Santos, Portugal Navy, commanding the cruiser "Vasco de Gama." Calls were also made on the United States Consul General, Mr. W. S. Hollis, and the commandant of the dock yard, when arrangements were made with him to have the officers visit the naval school. Before leaving Lisbon the Captain called on the United States Minister to Portugal, who was not in Lisbon when the "Nantucket" arrived. The weather was particularly fine during the stay of the ship at Lisbon, thus enabling the cadets to visit many of the places of interest in and about the city.

Cadiz, Gibraltar and Madeira.

On June 17 the ship left Lisbon and arrived at Cadiz, Spain, during the night of the 18th. The next day officers representing the military governor and the captain of the port called, and the Captain went with the United States Consul, Mr. B. H. Carroll, to call on the governor and the captain of the port. Later these officers came on board the ship.

The "Nantucket" sailed from Cadiz on the morning of June 21 and moored inside the breakwater at Gibraltar in the afternoon of the 22d, the passage being lengthened by a strong east wind, with a heavy sea. Visits were received from a boarding officer representing the naval commander-in-chief, Rear Admiral H. B. Pelly, Royal Navy, and from the United States Vice-Consul. The following day the Captain called on the governor of Gibraltar, Admiral Pelly, and the United States Vice-Consul. All of the above calls were returned. One watch was given liberty each day while at this port.

On June 29 the "Nantucket" sailed from Gibraltar for Madeira, via Tangier, Morocco, arriving at Tangier about noon the same day, and sailing for Funchal, Madeira, about sunset June 30. While at Tangier both watches received liberty.

An officer from the Spanish cruiser "Princesa de Asturia" called on board, and the Captain exchanged visits with the captain of the Spanish ship and with the United States Vice-Consul, Mr. F. E. Evans, making

arrangements with him to call on the sultan's representative at Tangier, which was done the next day.

At about 1 P.M., July 1, the propeller was uncoupled and the ship proceeded under sail alone for about 441 miles, when, at about 4 A.M., July 4, it was again coupled, and the ship proceeded to Funchal, where she anchored at about 9.45 A.M., July 4. The "Nantucket" was full dressed in honor of the day, and the cadets engaged in various athletic contests in the forenoon, such as boat races, swimming and diving. In the afternoon the United States Consul, Mr. W. L. Jenkins, held a reception in honor of the day to which the officers were invited, and which was attended by the governor of Madeira. The Captain exchanged visits with the governor, the Consul and the captain of the port. The usual liberty was given at Madeira.

Madeira to Norfolk.

The "Nantucket" sailed from Funchal, Madeira, on July 8, and proceeded under steam and sail until about 8 P.M., July 14, when the propeller was uncoupled, and the ship proceeded under sail alone until about midnight, July 28; then the propeller was coupled up, and the ship proceeded under sail and steam until she arrived at Norfolk. The total distance made from Madeira under sail alone was 1,459 miles. During this period a gentle trade wind blew from the E. N. E. with very fine weather, giving an average speed of about 4 knots. Lower and topmast stunsails were rigged, and as much additional canvas in the way of "catchalls" as was available whenever it would draw. In order to save coal, the dynamo was shut down during the day when it was not needed to operate the refrigerating plant, which plant proved very useful and not expensive to operate. On July 31 the wind began to increase until during the night of August 2–3 it reached the force of a moderate gale from the W. S. W., dying out during the afternoon of the 3d after a very heavy thunderstorm accompanied by heavy rain, which was the first rain of any consequence experienced since the ship left Boston. On August 4 the "Nantucket" arrived at Norfolk, Va.

This long passage home from Madeira was of great benefit to the cadets as a body, the weather being so fine all the time that conditions were perfect for the practice of navigation, and the weather was not uncomfortably warm.

Washington, Hampton Roads and Norfolk.

The Superintendent called on the commandant of the navy yard, Norfolk, and the visit was returned. After receiving coal and stores, the ship sailed for Washington, D. C., on August 11, where she arrived on the 12th. During this passage the first and second classes practiced coastwise navigation and piloting. On the 17th these classes visited the Hydrographic Office, Navy Department, on the invitation of the hydrographer, and were conducted through the various divisions of the office.

On August 17 the graduates of the Massachusetts Nautical School employed in the Hydrographic Office gave a hop to the senior classes on shore, which was returned by the cadets with a hop on board the ship on the evening of the 18th.

The ship left Washington on August 20, and anchored at Mt. Vernon long enough to allow the cadets to visit the place, and proceeded down the river the same afternoon. The ceremonies prescribed by the Navy regulations were observed each time when passing Mt. Vernon.

On Monday the 22d, six floats were anchored in line to represent wharves, and the cadets of the first and second classes practiced laying the ship alongside them while the engineer cadets operated the engine. While in Chesapeake Bay and the Potomac River the cadets were practiced at piloting, chart work, and plotting the ship's position by using various approved methods. On the 23d the vessel anchored at Yorktown, where liberty was given. The next day she proceeded to the naval operating base, Hampton Roads, Va., where the Superintendent called on the commandant, Rear Admiral Hugh Rodman, United States Navy, and made arrangements for coaling ship, then proceeding to Norfolk.

Essington, Pa.

The "Nantucket" sailed from Norfolk for Philadelphia on August 27, and was delayed by a strong northeast wind and heavy sea, which was followed by a dense fog which continued until the ship arrived off the capes of the Delaware. The ship arrived at Essington, Pa., during the afternoon of August 29, and a representative of the Westinghouse Electric and Manufacturing Company came on board, and arrangements were made to have all of the engineer cadets visit the works the next day. Four days were spent at these works, the cadets being given instruction in the theory and practice of the turbine engine and reduction gearing as built for merchant vessels. Various engineers of the company gave talks illustrated by lantern slides in the mornings; in the afternoons the cadets were shown through the shops and saw those parts lectured on previously. Lunch was furnished by the company in their restaurant, and in every way the treatment accorded the cadets was most thoughtful and courteous. Notwithstanding the short time available for this visit, the information gained was very valuable to the cadets and the officers who went with them.

Nantucket.

The ship sailed from Essington, Pa., on September 4 for Nantucket, encountering another dense fog after clearing the capes of the Delaware, which continued until she arrived off Vineyard Haven during the evening of the 6th, where she anchored for the night and proceeded to Nantucket the next day, where the cadets were granted liberty.

The "Nantucket" sailed from Nantucket on September 12 and arrived in President Roads about midnight the same day, and the next morning she anchored off Northern Avenue.

Governor's Inspection.

At 3 P.M., September 14, His Excellency Channing H. Cox, Governor of the Commonwealth of Massachusetts, attended by the Lieutenant-Governor and Council came on board to inspect the ship. After the inspection His Excellency addressed the cadets and then left the ship. The "Nantucket" got underway and proceeded to President Roads, and returned to the same anchorage at 4.38 P.M. While underway the cadets were exercised at sail, fire, abandon ship and man overboard drills. The Commissioners left the ship at 4.45 P.M. At 11 A.M. on the 16th the "Nantucket" made fast at her winter berth alongside the pier at North End Park.

Value of Cruise.

The Superintendent is of the opinion that the cruise was of great value to the cadets, particularly the passage of twenty-six days from Madeira, during which time they continuously carried on their practical navigation, the weather being perfect for this purpose. Sail was carried during the entire cruise whenever possible, which gave the cadets ample exercise aloft and on deck. When the ship was under steam, the cadets did all the firing, and performed this duty in a highly satisfactory manner. The officers, crew and the cadets showed commendable zeal in the discharge of their various duties, thus contributing largely towards making the cruise both pleasant and instructive.

There was practically no sickness during the cruise, and there were no accidents of any importance.

Coal Consumption.

	Tons.
On hand May 2 and received to September 17	810.0
Expended	648.4
Remaining	161.6
Itemized account of coal expended: —	
Moving ship and banked fires	366.1
Dynamos and auxiliaries	215.3
Distilling water	50.5
Galley	16.5
Total	648.4

Miles steamed, 7,544; miles per ton, 22.

ITINERARY OF THE "NANTUCKET," CRUISE OF 1921.

PORTS.	Distance (Miles).	Left.	Arrived.
Boston–Plymouth, England	3,085	May 9	May 26
Plymouth–Brest, France	167	June 3	June 4
Brest–Lisbon, Portugal	700	June 9	June 13
Lisbon–Cadiz, Spain	258	June 17	June 18
Cadiz–Gibraltar, Spain	99	June 21	June 22
Gibraltar–Tangier, Morocco	33	June 29	June 29
Tangier–Madeira Island	596	June 30	July 4
Madeira–Norfolk, Va.	3,725	July 8	Aug. 4
Norfolk–Washington, D. C.	183	Aug. 11	Aug. 12
Washington–Norfolk, Va., via Yorktown	256	Aug. 20	Aug. 24
Norfolk–Essington, Pa.	262	Aug. 27	Aug. 30
Essington–Nantucket	382	Sept. 4	Sept. 7
Nantucket–Boston	126	Sept. 12	Sept. 13
	9,872		

OFFICERS AND INSTRUCTORS.

The following are the officers and instructors now connected with the school: —

Superintendent and commanding officer, Capt. Armistead Rust, U. S. N., retired.

Executive officer, Commander Howard G. Copeland, U. S. N. R. F. (graduate M. N. S.).

Navigator, John W. Thompson (graduate M. N. S.).

Watch officer, Lieut. Norman E. Merrill, U. S. N. R. F. (graduate M. N. S.).

Watch officer, Chief Boatswain Timothy Sullivan, U. S. N., retired.

Chief engineer, Lieut. Ervin L. Kelley, U. S. N. R. F. (graduate M. N. S.).

Assistant engineer, Calvin W. Simonds (graduate M. N. S.).

Instructor in mathematics, Arthur B. Frizell, A. M.

Medical officer, James J. Putnam, M.D.

Paymaster and captain's clerk, Thomas A. O'Connell.

ROUTE OF THE
MASSACHUSETTS-NAUTICAL-SCHOOLSHIP
==NANTUCKET==
1921
LENGTH OF CRUISE, 9,900 MILES

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Appointments.

Name.	Title.	Date.
Frances T. Bowles	Commissioner	July 1, 1921
Thomas A. O'Connell	Paymaster	Jan. 16, 1921
Dr. Rudolf Dresel	Surgeon	May 1, 1921
Dr. James J. Putnam	Surgeon	Oct. 1, 1921
Arthur B. Frizell, A.M.	Instructor in mathematics	Oct. 25, 1921

Resignations.

Name.	Title.	Date.
Edward S. Groves	Paymaster	Jan. 15, 1921
Arthur B. Frizell, A.M.	Instructor in mathematics	Mar. 31, 1921
Dr. James J. Putnam	Surgeon	Apr. 30, 1921
Dr. Rudolf Dresel	Surgeon	Sept. 30, 1921

Cadets admitted, graduated, and honorably discharged, from 1893 to 1921, inclusive.

	Admitted.	Graduated.			Honorably discharged.	Withdrawn, dismissed, dropped.	Number connected with the School.
		Seamanship Class.	Engineer Class.	Totals.			
1893 . . .	141	–	–	–	29	24	138
1894 . . .	63	–	–	–	43	18	156
1895 . . .	71	19	19	38	12	6	156
1896 . . .	74	20	17	37	31	17	174
1897 . . .	73	20	21	41	20	9	165
1898 . . .	99	15	25	40	26	23	194
1899 . . .	79	11	12	23	41	11	184
1900 . . .	78	14	36	50	21	14	186
1901 . . .	71	11	18	29	20	16	172
1902 . . .	90	16	22	38	34	13	197
1903 . . .	66	17	14	31	25	17	178
1904 . . .	60	16	29	45	17	31	165
1905 . . .	65	10	10	20	9	13	137
1906 . . .	50	16	19	35	18	19	145
1907 . . .	60	10	15	25	17	26	133
1908 . . .	45	8	10	18	9	9	110
1909 . . .	81	14	22	36	7	16	156
1910 . . .	54	6	16	22	16	15	151
1911 . . .	69	20	23	43	7	18	168
1912 . . .	57	17	16	33	14	15	157
1913 . . .	79	21	19	40	20	8	174
1914 . . .	65	20	16	36	22	7	171
1915 . . .	70	26	19	45	18	11	176
1916 . . .	73	23	15	38	36	3	175
1917 . . .	69	26	11	37	16	3	167
1918 . . .	66	31	17	48	10	4	178
1919 . . .	77	37	18	55	17	5	193
1920 . . .	70	35	15	50	13	7	186
1921 . . .	70	35	17	52	9	7	184
Totals . .	2,085	514	491	1,005	577	385	–

Cadet Officers of the Massachusetts Nautical School.

Summer Term, 1921.

J. Blaisdell Wells, *Cadet Master.*

Navigation.

John C. Hennessy . . . . . *Cadet First Officer.*
Herbert A. Beaumont . . . . . *Cadet Second Officer.*
Theodore W. Marvin . . . . . *Cadet Third Officer.*

Engineering.

Warren M. Messier . . . . . *Cadet Engineer.*
Gerald D. Murphy . . . . . *Cadet First Assistant Engineer.*
Harry C. Hanson, Jr. . . . . *Cadet Second Assistant Engineer.*

Petty Officers.

(*Deck.*)

Lawrence T. Sullivan.
Alfred T. Perry.
Edward F. Sise.
Edward C. McLaughlin.
Lawrence R. Stowers.
Norman D. MacLellan.
Kenneth C. Mayo.

(*Engineering.*)

Wilbur G. Clancy.

Winter Term, 1921–22.

Herbert A. Beaumont, *Cadet Master.*

Navigation.

Kenneth C. Mayo . . . . . *Cadet First Officer.*
Arthur O. Brady . . . . . *Cadet Second Officer.*
William C. Mahoney . . . . . *Cadet Third Officer.*

Engineering.

John D. Bosler . . . . . *Cadet Engineer.*
Roy Y. Gordon . . . . . *Cadet First Assistant Engineer.*
Frederic W. Mahoney . . . . . *Cadet Second Assistant Engineer.*

Petty Officers.

(*Deck.*)

Angus S. MacIntyre.
Vincent F. J. Hancock.
Ernest D. Murray.
Eliot Olsen.
Robert M. Pierce.
Scranton H. Redfield.
Edward C. Beatson.
Webster G. Farrell.

Engineering.

George M. Walker.

Membership of the School.

Graduating Class, March, 1921.

* Received 85 per cent, or over, and entitled to wear gold star on coat collar.

Seamanship Division.

* **Franklin, Arnold L.**[1]	Springfield.
Robertson, John A.	Boston.
McDonald, James A.	Lowell.
Tupper, Ernest A.	Lowell.
Coughlin, Charles H.	Lowell.
Curley, Frank J.	Dedham.
Lewis, M. Oliver	New Bedford.
Colgan, M. Read	Brookline.
Barkley, George	Holyoke.
Severne, Homer A.	Dorchester.
Bailey, Edward N.	Rockport.
Crawford, Theodore	Allston.
Hutchins, Trafton	Haverhill.
Nelson, Clarence M.	Provincetown.
Bailey, Bertram S.	East Boston.
Hammond, Leighton S.	Marion.
Rhodes, Robert S. F.	Worcester.
Taylor, Robert E.	Boston.
O'Sullivan, Roger J.	West Medford.

Engineering Division.

* **Smith, John B.**[1]	Hyannisport.
* **Murphy, Frederick L.**	Roxbury.
McKinley, James G.	Lowell.
* **Hohenberger, Geo. J.**	Holyoke.
Hardy, Raymond N.	West Somerville.
LeCour, Harold J.	Winthrop.
Pilkington, Albert I.	Mansfield.

Graduating Class, September, 1921.

Seamanship Division.

Hennessy, John C.[1]	West Medford.
Marvin, Theodore W.	Roxbury.
Smith, August L.	Westwood.
Atkinson, Philip W.	Fitchburg.
Stowers, Lawrence R.	Stoneham.
McLaughlin, Edward C.	Charlestown.
Foster, Charles G.	East Brewster.

[1] Alumni prize.

MacLellan, Norman D.	South Hanson.
Wells, J. Blaisdell	Somerville.
Sise, Edward F.	West Medford.
Perry, Alfred T.	Nantucket.
Sullivan, Lawrence T.	East Boston.
Perkins, George A.	North Carver.
Lavin, George J.	Melrose.
Godfrey, Alphonsus J.	Dorchester.
Cousins, Raymond A.	Framingham.

Engineering Division.

Vera, George A.[1]	New Bedford.
Murphy, Gerald D.	Brockton.
* **Bedell, Lancelot S.**	Brookfield.
Mew, Thomas J.	Holyoke.
Clancy, Wilbur G.	East Methuen.
Messier, Warren M.	Watertown.
Hanson, Harry C., Jr.	Kingston.
Strong, J. Lyttleton	Malden.
Noonan, William Jr.	Mansfield.
McAfee, William C.	Woods Hole.

Class to Graduate, March, 1922.

Seamanship Division.

Mayo, Kenneth C.	Provincetown.
Brady, Arthur O.	Rockland.
Burgess, Carroll P.	Bournedale.
Hancock, Vincent F. J.	Fall River.
Mahoney, William C.	Somerville.
Murray, Ernest D.	Everett.
MacIntyre, Angus S.	Provincetown.
Beaumont, Herbert A.	Dorchester.
Worth, George W.	Cambridge.
Sillars, Malcolm O.	Danvers.
Johnson, Everett F.	Gloucester.
Mulvey, John F.	Roslindale.
Harlow, Frederick L.	Cotuit.

Engineering Division.

* **Bosler, John D.**	Holyoke.
Gordon, Roy Y.	Somerville.
Mahoney, Frederic W.	Somerville.
Geddes, W. Ernest	Attleboro.
Smith, Francis J.	Lawrence.

[1] Alumni prize.

Brooks, Dexter M.	Wakefield.
Walker, George M.	Lowell.
Gross, Gerald W.	Marstons Mills.
Moore, Harvey W.	West Somerville.
Lewis, Gilbert E.	Lawrence.
Barry, William J.	Lawrence.

Class to Graduate, September, 1922.

Seamanship Division.

Pierce, Robert M.	Rockport.
Olsen, Eliot	East Milton.
Beatson, Edward C.	Ludlow.
Redfield, Scranton H.	Lynn.
Pierce, Hosea T.	Rockport.
Farrell, Webster G.	Canton.
Cudios, Emerson J.	Provincetown.
Crosby, John B.	Eastham.
Baker, E. Stanley	Manchester.
Lawrence, Harvey S.	Groton.
Howard, John P.	Waltham.
Bell, Algernon H.	Swansea.
White, Norman B.	Malden.
Johnson, Otto W.	Dorchester.
Rhodes, Everett A.	Worcester.
Judd, Eric V. T.	Lowell.

Engineering Division.

Bouvier, Edward A.	Marlborough.
Johnson, Lloyd M.	Allston.
Sibley, Ernest G.	Norton.
Harlow, Louis F.	North Easton.
Norcross, Richard W.	Needham.
Dorgan, Lawrence E.	Brockton.
Crowell, Nathan S.	East Dennis.
Wuest, Frank R.	Lawrence.
Drummond, William J.	Lawrence.
Kaplan, Jacob	Boston.
Carreiro, George F.	Fall River.
Whittredge, Thomas J.	Lynn.
Jung, George J.	Medford.

Class to Graduate, March, 1923.

Griffiths, William E.	Fall River.
Hourigan, Edmund M.	Dorchester.
Jones, Paul R.	Gloucester.

Lewis, Percy J.	Lynn.
Smith, Lorenzo H.	North Easton.
Heffron, Augustin P.	Marlborough.
Fila, Michael S.	Bradford.
Kilpatrick, Kenneth K.	Medford.
Hey, John A.	Lawrence.
Fletcher, Florence N.	Marlborough.
Cole, Arthur F.	West Lynn.
Knapp, Gordon W.	Lowell.
Newell, Raymond B.	Everett.
Almond, William H.	Fall River.
Hickey, George R.	Rockland.
Bridge, Elmer H.	Fall River.
Murphy, Walter J.	Roxbury.
Andrews, George J.	Winthrop.
Dodd, Frederick N.	East Lynn.
Ellis, Orlando D., Jr.	Fitchburg.
Jacot, Julius F.	Beachmont.
Fairbrother, Thomas F.	North Billerica.
Coleman, Gerald P.	Melrose.
Bathelt, Walter C.	Holyoke.
Williams, Francis T.	Hyde Park.
Kimball, Edmund W.	East Lexington.
Corfield, William T.	Roxbury.
Woodbury, Melzar A.	Marion.
Brannelly, Thomas A.	Roxbury.
Whelan, Maurice L.	Whitman.

Class to Graduate, September, 1923.

(Alphabetically arranged.)

Abbott, Stephen A.	Stoneham.
Baker, Duncan S.	Manchester.
Barnicle, Francis J.	Fitchburg.
Brown, Charles E.	Eastham.
Calhoun, James A.	West Somerville.
Carleton, George F.	Swampscott.
Cary, Franklin A.	Newton Highlands
Cassius, Claude F.	Lowell.
Cates, Edson B.	Roslindale.
Chamberlain, Roy W.	East Lynn.
Cheney, George G.	Weston.
Clarke, James W.	Onset.
Gardner, Carlton P.	Lowell.
Handran, John E.	Rockport.
Humphries, Alfred	Salem.
Keane, James F.	Worcester.

Kelleher, Cornelius T.	Worcester.
Lowey, Aulden S.	Woods Hole.
Mayo, Raymond W.	Eastham.
McGourthy, Edward P.	Roxbury.
Mills, John K.	South Natick.
Morgan, George E.	Medford.
Neville, William	Pottersville.
Pendleton, Richard E.	Bryantville.
Phillips, Dana V.	Newton Center.
Pierce, I. Edward	Lanesborough.
Russell, Winthrop A.	Wollaston.
Smith, Rudolf A.	Wellesley Hills.
Wade, John E.	Swampscott.
Wright, Leman N.	Rockland.
Young, Harold T.	Dedham.

Register of Graduates.

Officers in the Merchant Marine.

[* Enrolled in the United States Naval Reserve.]

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1899	George F. Waite	Winthrop	District agent	United States Shipping Board, Boston.
1900	Joseph E. Gately	Marlborough	District director of operations.	United States Shipping Board, Philadelphia, Pa.
1901	*John J. Coholan	Dorchester	Marine superintendent.	United States Shipping Board, Boston.
1903	*Robert B. Powers	Brockton	Marine superintendent.	United States Shipping Board, Philadelphia, Pa.
1911	Norris T. Ela	Douglas	Marine superintendent.	Atlantic, Gulf & Pacific Corporation, Baltimore, Md.
1899	Edward G. Smith	Boston	Port captain	Freeport Sulphur Company.
1905	*Walter L. Smith	Ashburnham	Port captain	United States Shipping Board, Baltimore, Md.
1894	James E. Reardon	Roxbury	Captain	"Lake Frugality."
1894	Henry G. Carpenter	Roxbury	Captain	"W. L. Steed."
1894	Albert L. Warner	Wollaston	Captain	"Lake Gardner."
1895	Walter J. Healey	Worcester	Captain	"E. T. Bedford."
1896	*William N. P. Baker	Brooklyn	Captain	"Argosy."
1896	Alvin W. Haynes	Somerville	Captain	"Colon."
1896	Henry R. Bodge	Wollaston	Captain	"Northland."
1896	Geo. R. Lauriat	Fort Moultrie	Captain	"Gen. Brannan."
1897	H. W. G. Atkins	Reading	Captain	– –
1897	*Frederick W. Jones	Winchester	Captain	– –
1897	Mina Dailey	Rockport	Captain	"Harwood."
1897	Chas. W. Clift	Whitman	Captain	"Gen. J. M. Schofield."
1898	*Louis E. Congdon	Boston	Captain	"Swift Eagle."
1898	*Carl E. A. Anderson	Brooklyn	Captain	"Arizonan."
1899	*Walter S. Lynch	Chelsea	Captain	– –
1899	Richard T. Blackford	Marblehead	Captain	– –
1900	William B. Knight	Bellingham	Captain	"Catherine D."
1900	*James S. Howes	Woods Hole	Captain	"West Cape."
1901	Theodore H. Bicknell	Melrose	Captain	"Herman Frasch."
1901	Charles D. Harrington	Boston	Captain	"H. M. Flagler."
1901	Robert W. Tucker	Kendal Green	Captain	"Ipswich."
1902	*A. Russell Cushing	Allston	Captain	"Balsam."
1902	*Edwin J. Madden	Clifton, N. J.	Captain	"Cold Harbor."
1903	*Nicholas J. Kane	Brooklyn	Captain	– –

Officers in the Merchant Marine — Continued.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1903	Mark Woodbury	San Francisco	Captain	"Magunkook."
1903	Benj. O'Connell	Peabody	Captain	"Wheeling Mold."
1904	*Andrew J. Iverson	Bristol	Captain	"Lake Geneva."
1904	*Edward C. Roberts	No. Beverly	Captain	"Ulysses."
1905	*Frederick S. Walker	Everett	Captain	"Everett."
1905	*Harold H. Gridley	Dorchester	Captain	"Caddo."
1905	*James A. Crocker	Nahant	Captain	"Florida."
1906	*Geo. C. Bosson	Reading	Captain	"James S. Whitney."
1907	*Elmer B. Small	No. Truro	Captain	"Panuco."
1907	*William M. Gifford	Woods Hole	Captain	"Belleflower."
1907	*Frederic A. Gainard	Chelsea	Captain	– –
1907	Frazier L. Sears	E. Dennis	Captain	"City of Freeport."
1908	*Eugene P. Shevlin	E. Boston	Captain	– –
1908	*Edward S. Ells, Jr.	Haverhill	Captain	– –
1909	Harold C. Cooper	Worcester	Captain	"Polarine."
1909	*Carroll E. Higgins	Somerville	Captain	"Dakotan."
1909	William A. Sillars	Danvers	Captain	"Niobe."
1909	*Robert S. Sparrow	Eastham	Captain	"Tuckanuck."
1910	*Chester E. Morris	Brooklyn	Captain	"Aledo."
1911	Frederic J. Shaw	Winthrop	Captain	– –
1911	*Charles F. Fornason	Marblehead	Captain	– –
1911	*Harold S. Dexter	Mattapoisett	Captain	– –
1911	*Henry O. K. Hanson	Neponset	Captain	– –
1911	*Raymond C. Vose	Norfolk	Captain	"Dauperata."
1911	*Eugene W. Miller	E. Saugus	Captain	"Chinampa."
1912	*Harold Ertel	Longmeadow	Captain	– –
1912	Russell A. Eastman	Mattapoisett	Captain	"Orcus."
1912	*Alex. G. Perkins, Jr.	Newburyport	Captain	"Achilles."
1912	*Robert M. Gray	Melrose	Captain	– –
1913	*Everett O. Swinson	E. Gloucester	Captain	"Gen. Goethals."
1913	*Borden A. Tuell	New Bedford	Captain	"Vanada."
1913	*Ralph W. Dearborn	Mansfield	Captain	"Alloway."
1913	*John A. Maddock	Newburyport	Captain	– –
1913	Wilfred H. Senior	Dorchester	Captain	"Romance."
1914	John L. Kirchner	Hinsdale	Captain	N. Y., N. H. & H. R.R. tugs.
1914	Nelson T. Nutter	Newburyport	Captain	"Chamblee."
1914	*James A. Stowell	Walpole	Captain	– –

Officers in the Merchant Marine — Continued.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1914	Samuel A. Gates	Malden	Captain	"Ascutney."
1915	George T. Horan	Dorchester	Captain	"Lake Flushing."
1915	Chas. H. Hurley, Jr.	Gardner	Captain	"Mary Manson Greener."
1915	*Leland M. Marshall	Allston	Captain	"Advance."
1915	Harold F. Craven	Lawrence	Captain	"Trinidadian."
1915	*Chas. E. Griffith	Cambridge	Captain	"Lake Getaway."
1916	*William E. Lord	Springfield	Captain	"Lake Tippah."
1916	Clayton W. Collins	Waquoit	Captain	"Baytown."
1917	Alan R. Barton	Winthrop	Captain	– –
1917	Sydney L. MacLaughlin	Wollaston	Captain	"Plainfield."
1917	Herbert W. Susmann	Dorchester	Captain	– –
1895	Harold W. Davis	Somerville	First officer	"Cottonwood."
1895	Geo. L. P. Covell	Roxbury	First officer	United States Shipping Board.
1897	*Herbert P. Smith	Nantucket	First officer	– –
1898	*Harlowe Johnson	Mattapoisett	First officer	– –
1898	*James H. Willey	Santa Cruz	First officer	"West Ira."
1900	Clayton G. Parsons	Salem	First officer	"West Cape."
1900	*E. Newton Parker	Greenfield	First officer	"Brookline."
1900	Edward Smith	Melrose	First officer	"Hartford."
1900	Alfred M. Cummings	Worcester	First officer	"Virginian."
1906	*Lewis B. Butler	Worcester	First officer	"Lake Fear."
1907	Philip B. Marcy	Brookline	First officer	"Ameland."
1908	*Chester B. Mellen	Bridgeport	First officer	"Mangore."
1910	*Charles H. Tumey	Southbridge	First officer	– –
1911	Wm. M. Gorham	W. Somerville	First officer	"Lurline."
1911	*Charles C. Plummer	Cambridge	First officer	"Steadfast."
1911	*Wesley F. Besse	W. Somerville	First officer	"W. J. Hanna."
1912	*Herbert A. Burns	New Bedford	First officer	– –
1912	Clarence L. Howard	Wellesley	First officer	– –
1912	*Harold L. Winslow	Canton	First officer	– –
1912	*Ralph E. Merithew	Haverhill	First officer	"Saccarappa."
1912	*Kenneth E. Cahoon	W. Tisbury	First officer	"Aurora."
1912	*William H. O'Donoghue	Roxbury	First officer	– –
1912	*Joseph M. Daniel	Osterville	First officer	– –
1912	*Ellenwood Folger	Siasconset	First officer	– –
1912	*Albert H. Acorn, Jr.	Malden	First officer	"Clement Smith."
1913	*Philip J. Fanning	Baltimore	First officer	"Otho."

Officers in the Merchant Marine — Continued.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1913	James A. MacCabe	Osterville	First officer	– –
1913	*Philip H. Waldron	E. Milton	First officer	"Coahoma County.
1913	Arthur G. Burt	Whitman	First officer	"Pocahontas."
1913	*Frederick L. Howland	So. Dartmouth	First officer	"Western Ally."
1913	*Waldon A. McIntire	E. Gloucester	First officer	"Martha Washington."
1913	*Frank H. Nelson	Fall River	First officer	"Florence Luckenbach."
1914	*Samuel J. Lee	Roxbury	First officer	"Pasadena."
1914	*Geoffrey C. O'Donoghue	Roxbury	First officer	"Cuba."
1914	*Gerard R. Crosby	Orleans	First officer	"Minnesotan."
1914	*F. Palmer Harrington	Malden	First officer	"Putnam."
1915	*Ralph S. Moore	New York	First officer	"Steel Mariner."
1915	*Arthur A. Hovgaard	Brookline	First officer	"West Raritans."
1915	Ronald B. Ford	Lawrence	First officer	"Yukon."
1915	Albert V. Jones	Fall River	First officer	"Caldas."
1915	*William C. Davenport	New Bedford	First officer	– –
1915	Chas. N. Bamforth	So. Lincoln	First officer	"Mount Clay."
1915	Earle D. Hammond	E. Mattapoisett	First officer	– –
1915	*Herman S. Mayo	Provincetown	First officer	"Fairmont."
1916	*Peter J. Jakmauh	So. Boston	First officer	"West Inskip."
1916	John W. Simmons	Springfield	First officer	I. M. M. Lines.
1916	*Richard H. Dunphe	Brockton	First officer	"Victorious."
1916	*J. Prescott Mahoney	W. Wareham	First officer	"San Leonora."
1916	*Paul H. Browne	Roslindale	First officer	"Satartia."
1916	Arthur J. Kenney	Brookline	First officer	"Circinus."
1916	Harold R. Congdon	Somerville	First officer	"Amolco."
1916	*John A. Rylander	Springfield	First officer	"Steel Trader."
1916	*Thomas B. Lufkin	Gloucester	First officer	"Katahdin."
1916	Charles A. Martell	Somerville	First officer	"Steel Engineer."
1916	*Randall F. Elder	Brighton	First officer	"Cabeza."
1916	*Edwin T. Fletcher	Springfield	First officer	"Wheaton."
1917	Alton E. Borden	Fall River	First officer	– –
1917	William W. Storey	Stoneham	First officer	"Turialba."
1917	Stanley F. Roberts	Springfield	First officer	– –
1917	*Russell W. Thresher	Southbridge	First officer	"Steelmaker.
1917	Franklin B. Atwood	Nantucket	First officer	"Delco."
1917	David M. McLaren	Dedham	First officer	"Eten."
1917	A. Henry Rowe	Roslindale	First officer	"Kisnop."

Officers in the Merchant Marine — Continued.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1917	Ivan Freeman	E. Orleans	First officer	"Ossaban."
1917	Robert H. Sheridan	Stoneham	First officer	"Nora."
1917	Luther C. Kingsbury	Wellesley	First officer	"Riverside Bridge."
1918	Hartley Hoffses	Quincy	First officer	"West Loquassuck."
1918	Alden L. Strout	Boston	First officer	"Jonancy."
1918	Max Distelman	Newburyport	First officer	"Lackawanna Bridge."
1918	Wm. S. Reagh	Wakefield	First officer	"Plymouth."
1918	*William H. Fitzgerald	Revere	First officer	"Chester Valley."
1918	G. Minard Cunningham	Lawrence	First officer	– –
1918	Jacob Popkin	Malden	First officer	"Yuka."
1918	Leonard C. Walen	Gloucester	First officer	"Osawatomie."
1918	Gordon C. Mackie	Pittsfield	First officer	"Baytown."
1918	James E. Fraser	Boston	First officer	"Agwimoon."
1919	Harry C. Lord	Springfield	First officer	– –
1919	Sherman W. Reed	Dorchester	First officer	"Levisa."
1919	Charles F. Bossom	Arlington	First officer	"Macerata."
1894	Alfred J. O'Leary	Worcester	Second officer	"Adacia."
1902	*George Castle	Lynn	Second officer	"Lake Fanning."
1904	Leslie F. Holmes	Whitman	Second officer	– –
1904	*Charles H. Stoddard	Brookline	Second officer	– –
1906	John Ruyter	Rochester	Second officer	"Lake Ellio."
1907	Herbert Garity	Boston	Second officer	"Dorothy."
1910	Franklin K. Tyler	Beachmont	Second officer	"Saramacca."
1911	*Angelo A. Aicardi	So. Boston	Second officer	– –
1913	John W. Crocker	Nahant	Second officer	"Western Spirit."
1913	Alden L. Hodges	Boston	Second officer	"Lake Linden."
1914	*Joseph L. Turner	Amherst	Second officer	– –
1914	*William H. Fogarty	Dorchester	Second officer	"Afoundria."
1914	Laurence L. Horton	W. Haven	Second officer	"Prince Frederick Henry."
1914	*Edward F. Murphy, Jr.	Fall River	Second officer	"Lewis Luckenbach."
1914	David H. Swinson	E. Gloucester	Second officer	"Lancaster."
1915	Martin F. Comeau	Belmont	Second officer	– –
1915	*Russell C. Damon	Hingham	Second officer	"Lake Ellsbury."
1915	*Curtis C. Fales	Westborough	Second officer	I. M. M. Lines.
1915	*Chas. P. Jacobson	Everett	Second officer	"Oskawa."
1915	Sidney F. Nichols	Worcester	Second officer	"Malden."
1915	Russell L. Saunders	Allston	Second officer	"West Loquassuck."

Officers in the Merchant Marine — Continued.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1916	*Frank M. Perrin	Worcester	Second officer	– –
1916	*John T. Crowell, Jr.	Gloucester	Second officer	– –
1916	*Harold S. Ireland	Somerville	Second officer	"Eclipse."
1916	Clifford E. Stanley	Salem	Second officer	United States Shipping Board.
1916	Fred E. Wilcox	Indian Orchard	Second officer	– –
1917	*Percy A. Crosbie	Everett	Second officer	"Chester Valley."
1917	*Earl S. Francis	Athol	Second officer	– –
1917	*Arthur S. Phelan	Lynn	Second officer	"Steel Trader."
1917	*William M. Preston	Beverly	Second officer	– –
1917	Charles F. Huffman	W. Somerville	Second officer	"West Hambrie."
1917	*Frank M. Moore	Forest Hills	Second officer	"Malden."
1917	*Harry Levine	Cambridge	Second officer	– –
1917	*Bradford S. Wilson	Brookline	Second officer	– –
1917	Ernest V. Wyatt	Boston	Second officer	"Mahommet."
1917	Donald MacWhinnie	New Bedford	Second officer	"Sinsinawa."
1918	Robert P. Anderson	Melrose	Second officer	– –
1918	James C. McKenzie	Dorchester	Second officer	"Ahala."
1918	Ira D. Dean	So. Natick	Second officer	"Cathcoon."
1918	Arthur B. Gibbs	Nantucket	Second officer	"Houston."
1918	Harold S. Damon	Plymouth	Second officer	"W. C. Teagle."
1918	Almer T. Hovland	Newton Lower Falls.	Second officer	"Lake Gakona."
1918	Geo. R. Stockbridge	Wellesley	Second officer	"Anacorter."
1918	Wilbur W. Woods	Provincetown	Second officer	"Yaka."
1918	Raymond E. Saunders	W. Somerville	Second officer	– –
1918	James R. Moore	Lexington	Second officer	"Lake Sunapee."
1918	James J. Crowley	No. Abington	Second officer	– –
1918	James H. Lowry	Canton	Second officer	"Lake Ellesmere."
1918	Gerald K. Sanborn	Lawrence	Second officer	– –
1918	James R. Heaney	E. Lynn	Second officer	"Yamachichi."
1919	Llewellyn Roberts	Arlington	Second officer	"Andrea F. Luckenbach."
1919	*Nelson E. Gardiner	Fitchburg	Second officer	– –
1919	Edmond F. Bemis	E. Lynn	Second officer	"Worcester."
1919	Roy D. Hall	Dennis	Second officer	"Contoocook."
1919	Paul E. Purdy	Everett	Second officer	"Oronoke."
1919	Jack A. Fraser	Brighton	Second officer	– –
1919	Harry E. Hopkins	No. Eastham	Second officer	"William Green."
1919	Jos. W. Gosselin	Nahant	Second officer	"Steelmaker."

Officers in the Merchant Marine — Continued.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1919	*Gordon A. Littlefield	Cambridge	Second officer	"Argon."
1919	Walter J. Cronin	Somerville	Second officer	"Melrose."
1919	Paul Stone	Pigeon Cove	Second officer	"Lake Delancey."
1919	Walter W. Jenness	Malden	Second officer	"Quinneseco."
1919	Wm. H. Moulton	Bedford	Second officer	"Lake Elliott."
1919	Charles W. Torrey	Rockland	Second officer	"Ohioan."
1919	Charles E. Gilman	Somerville	Second officer	"Elkwater."
1919	John J. Mahoney	Revere	Second officer	"West Hosokie."
1920	*Francis X. Landrey	Roslindale	Second officer	"Western Star."
1905	*Laurence G. Kelley	Taunton	Third officer	– –
1912	Francis J. McGowan	Somerville	Third officer	"Lake Grampus."
1916	*Albert Bianchi	Worcester	Third officer	– –
1916	*John T. Crowell	Gloucester	Third officer	– –
1916	*Howard U. Chase	Nantucket	Third officer	– –
1916	*Byron H. Paine	New Bedford	Third officer	– –
1917	*Richard H. Hopkins	W. Somerville	Third officer	"Santore."
1918	*Edgar G. Glines	Beverly	Third officer	"Roanoke."
1918	*Raphael W. Hill	Provincetown	Third officer	"Siboney."
1918	Raymond P. Abbott	Newburyport	Third officer	"Sinsinawa."
1919	Frederick T. DeLeskey	E. Boston	Third officer	"Corsica."
1919	John W. Donahoe	Dorchester	Third officer	"Lake Larrabee."
1919	*Harold B. Wilkinson	Lynn	Third officer	"Lake Galando."
1919	Francis J. Harrington	Revere	Third officer	"Faith."
1919	Harold T. Longmore	Stoneham	Third officer	"Munamar."
1919	Harry C. Howe	Stoneham	Third officer	– –
1919	Alfred A. Needham	Manchester	Third officer	"Ardena."
1919	Geo. A. Henderson	Brighton	Third officer	– –
1919	Robert S. O'Brion	Malden	Third officer	"Carlton."
1919	Richard F. Nickerson	So. Duxbury	Third officer	"Cape Henry."
1919	Wm. B. Studley, Jr.	Fairhaven	Third officer	"Birmingham City."
1919	Ernest B. Waters	Nahant	Third officer	"Corsicana."
1920	Daniel J. Coughlin	Lowell	Third officer	– –
1920	*Fred M. Full, Jr.	Rockport	Third officer	– –
1920	*Clarence A. Bartlett	Lowell	Third officer	"Western Comit."
1920	*Noble M. Hartley	Winthrop	Third officer	"Lake Fagundas."
1920	*Thomas F. Coughlin	Roslindale	Third officer	– –
1920	*Laurence R. Jacques	Springfield	Third officer	"Anna E. Morse."

Officers in the Merchant Marine — Continued.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1920	*Fred C. B. Steinmetz	Springfield	Third officer	"Winona."
1920	*Roger W. Osborne	E. Lynn	Third officer	"Lackawanna."
1920	Theodore Collins	Milton	Third officer	"Hoven."
1920	*Joseph G. Dean	Springfield	Third officer	"Astmahco."
1920	*Chas. A. Freeman, Jr.	Taunton	Third officer	"Lake Foch."
1920	Roger W. Clarke	Auburndale	Third officer	"Minnesota."
1920	*Oswald J. Griffin	Fall River	Third officer	"Astoria."
1920	*Richard B. Taylor	W. Somerville	Third officer	"Romulus."
1920	*Erwin F. Colburn	Somerville	Third officer	"San Jose."
1920	*Ralph E. Tilton	Fitchburg	Third officer	"Crawl Keys."
1920	*Jos. K. Whittemore	W. Roxbury	Third officer	"Lake Ferrona."
1920	*J. Francis Devlin	Salem	Third officer	"America."
1920	John F. Hannan	Mattapan	Third officer	"Egremont."
1920	Geo. P. Lord	Salem	Third officer	"Decatur Bridge."
1920	Raymond A. Bowen	Gloucester	Third officer	"Red Mountain."
1921	Theodore W. Marvin	Roxbury	Fourth officer	"Montgomery City."
1900	*Hollis M. Cornwall	Melrose	Superintendent, engineer.	Merchants and Miners Transportation Company.
1907	Paul R. Smith	Brooklyn	Superintendent, engineer.	Kerr Steamship Company.
1900	Norris R. Sibley	Worcester	Consulting engineer.	Westinghouse Electric Manufacturing Company.
1895	Michael D. Sullivan	San Francisco	Chief engineer	"Rosencranz."
1898	William E. Ballsdon	Neponset	Chief engineer	"Herman Winter."
1898	Wilbur S. Lamont	Leominster	Chief engineer	"West Hargrave."
1898	*Everett S. Ransom	E. Mattapoisett	Chief engineer	– –
1898	Charles E. Rowe	Lynn	Chief engineer	– –
1898	*John C. Ganser	Jersey City	Chief engineer	"Bird City."
1900	*Charles E. Lowe	Roxbury	Chief engineer	"Eastern Trader."
1900	Elmer P. Butterworth	Port Arthur	Chief engineer	"Gulftrade."
1900	William Glover	Wilmington	Chief engineer	"West Celina."
1901	*Eugene I. K. Murphy	New York	Chief engineer	– –
1901	*Robert A. Patterson	Cambridge	Chief engineer	– –
1902	Daniel F. Butler	Waltham	Chief engineer	"Gloria."
1903	*James S. McGarry	New York	Chief engineer	"El Alba."
1903	*Edmund E. Powers	Cambridge	Chief engineer	"Texarkana."
1904	Charles W. Bumpus	Wareham	Chief engineer	"City of Gloucester."
1904	*Cecil L. McIntyre	Ashmont	Chief engineer	"Olen."
1905	*Walter C. Lockhart	Washington	Chief engineer	– –

Officers in the Merchant Marine — Continued.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1905	*Fred G. Carlton	Maynard	Chief engineer	"H. D. Morse."
1905	*Charles F. Tarr	Cambridge	Chief engineer	– –
1906	*Augustus C. Caldwell	Dorchester	Chief engineer	– –
1906	Victor M. Foster	Revere	Chief engineer	"Tuckahoe."
1906	*Arthur G. Burbank	Carver	Chief engineer	– –
1907	*George H. Stickney	Watertown	Chief engineer	– –
1907	*Samuel P. Osgood	Middleborough	Chief engineer	"Bessemer City."
1907	*Archie E. Bragg	New Bedford	Chief engineer	– –
1908	*Thomas B. Pellett	Worcester	Chief engineer	– –
1909	*Everett B. Ward	New York	Chief engineer	– –
1909	William A. Sullivan	E. Boston	Chief engineer	Mine sweeper.
1909	*Leo A. Keating	Natick	Chief engineer	"F.J.Luckenbach."
1909	Richard K. Henry	Pittsfield	Chief engineer	"Silverbrook."
1909	*Samuel J. Miller	Fall River	Chief engineer	"Lehigh."
1910	George W. Sibley	Worcester	Chief engineer	"Geo. W. Barnes."
1910	R. Wilbur Anderson	Mattapan	Chief engineer	"Passaic Bridge."
1911	*Robert F. Phinney	Mattapan	Chief engineer	"Matinicock."
1911	Harvey M. Thorndike	Cliftondale	Chief engineer	"El Capitan."
1912	*John M. Marks	Gloucester	Chief engineer	"Burnwell."
1914	*Arthur C. Goodwin	Somerville	Chief engineer	"Chapelle."
1915	*Philip J. Durney	Gloucester	Chief engineer	"Gloucester."
1916	*Percy C. Stevens	Avon	Chief engineer	– –
1917	*John D. Noonan	Mansfield	Chief engineer	"Yaklok."
1918	John R. Donlin	Medford	Chief engineer	"Cigarette."
1897	Augustus T. Holmes	Ipswich	First assistant engineer.	"J. M. Guffy."
1898	Frank P. Killion	Honolulu	First assistant engineer.	"Mauna Loa."
1898	Chas. E. Perry	Hyde Park	First assistant engineer.	"Elinor."
1900	Earle P. Marshall	No. Easton	First assistant engineer.	"Lake Buckeye."
1901	*Ernest E. Sackett	Lynn	First assistant engineer.	"Wampum."
1902	Augustus W. Hart	No. Truro	First assistant engineer.	– –
1904	*Benj. L. Welch	Lynn	First assistant engineer.	"Eastern Chief."
1904	Edward J. Chadbourne	Reading	First assistant engineer.	– –
1904	William Stewart	Charlestown	First assistant engineer.	– –
1905	Thomas W. Chisholm	Washington	First assistant engineer.	– –
1907	*Joseph R. Wier	Saundersville	First assistant engineer.	"Mexican."
1909	*William E. Caddigan	Dorchester	First assistant engineer.	– –
1909	Fritz T. Kebler	Rochdale	First assistant engineer.	"Henry F. Dimock."

Officers in the Merchant Marine — Continued.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1910	Leslie S. Badger	Norfolk, Va.	First assistant engineer.	"Galveston."
1910	Harold C. Grover	Stoneham	First assistant engineer.	"Nobles."
1912	Richard K. O'Connell	No. Easton	First assistant engineer.	"Nelson."
1912	Louis H. Racicot	W. Somerville	First assistant engineer.	"Paul H. Harwood."
1913	Paul S. Rice	Cambridge	First assistant engineer.	"Arlington."
1913	Russell A. McLay	Providence	First assistant engineer.	"Currier."
1914	Leslie T. Severance	Cambridge	First assistant engineer.	"Malden."
1914	Fred H. Brewster	Somerville	First assistant engineer.	United States Shipping Board.
1914	James A. Sweeney	E. Boston	First assistant engineer.	– –
1914	Charles P. Tucker	Boston	First assistant engineer.	"Northern Wave."
1915	*Roy C. Hartwell	New York	First assistant engineer.	"Arizonan."
1915	Arthur F. Higgins	Lawrence	First assistant engineer.	"Castlewood."
1915	*Clarence E. Stevens, Jr.	W. Barnstable	First assistant engineer.	– –
1915	*Bernhardt Gerecke	Boston	First assistant engineer.	– –
1915	John F. Houston, Jr.	Long Island	First assistant engineer.	"Gen. Goethals."
1915	Arvid H. Winquist	Mattapan	First assistant engineer.	"Lake Forney."
1916	*Henry A. Guba	New Bedford	First assistant engineer.	"Lake Benton."
1916	*John E. Pilkington	Mansfield	First assistant engineer.	"Eastside."
1916	*Paul Gorman	Marlborough	First assistant engineer.	"Chickasaw City."
1916	*Carl E. Berglund	Brockton	First assistant engineer.	"Toledo."
1916	*Alex. J. Phillips	Easton	First assistant engineer.	"Boundbrook."
1917	Arthur Massey	No. Andover	First assistant engineer.	"Conshohocken."
1917	Ernest E. Raby	No. Easton	First assistant engineer.	"Liberty Minquist."
1917	*Arthur D. Murphy	Beverly	First assistant engineer.	– –
1918	*Wesley C. Clark	Arlington Hts.	First assistant engineer.	"Saugerties."
1918	Raymond H. Sample	Montello	First assistant engineer.	"Hohira."
1919	Loran H. Sanford	Beverly	First assistant engineer.	"F. Q. Barstow."
1919	Warren L. Bailey, Jr.	Worcester	First assistant engineer.	"Innoko."
1919	Ronald G. Macintyre	Fall River	First assistant engineer.	"Cigarette."
1919	Edward H. Morin	Stoneham	First assistant engineer.	"Eastern King."
1919	Walter E. Carey	Holyoke	First assistant engineer.	"Coushatta."
1896	*Arthur W. Higham	Lawrence	Second assistant engineer.	– –
1897	Perley W. Kimpton	E. Somerville	Second assistant engineer.	"Shawmut."
1903	Harold A. Thompson	So. Framingham	Second assistant engineer.	– –
1904	*William A. Danforth	Dorchester	Second assistant engineer.	"Zerkle."
1908	Arthur E. Whiton	Greenwood	Second assistant engineer.	"Norwood."
1909	*Frederick H. H. Sylvia	Nantucket	Second assistant engineer.	– –

Officers in the Merchant Marine — Continued.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1910	William Bowen	Boston	Second assistant engineer.	"Bunker Hill."
1911	David J. Fulton	Wollaston	Second assistant engineer.	"Pluto."
1911	George L. Lockhart	Wakefield	Second assistant engineer.	"Orion."
1911	*Alfred Marques	Charlestown	Second assistant engineer.	– –
1911	Samuel D. White	Hyannisport	Second assistant engineer.	"Edward Pierce."
1912	*Richard J. Cavanaugh	New Bedford	Second assistant engineer.	– –
1912	George R. Davison	Springfield	Second assistant engineer.	"Ancon."
1913	*Charles J. Balboni	New Bedford	Second assistant engineer.	"Bessemer."
1913	Edward J. Fogarty	E. Boston	Second assistant engineer.	"Ockenfels."
1914	Benj. H. Allen, Jr.	Lawrence	Second assistant engineer.	"Leviathan."
1914	*Herbert T, Douglas	W. Medford	Second assistant engineer.	"Lake Ontario."
1914	*C. Harold Peterson	Norwood	Second assistant engineer.	– –
1914	Joseph L. Concannon	So. Boston	Second assistant engineer.	"Brindella."
1915	*John Holmes	Campello	Second assistant engineer.	– –
1915	*Sherman J. Barrett	Lawrence	Second assistant engineer.	– –
1915	Stanislaus P. J. Ciolkosz	Taunton	Second assistant engineer.	"West Jaffrey."
1916	*William W. Thomas	Concord	Second assistant engineer.	– –
1916	*Joseph P. Condrey	Lowell	Second assistant engineer.	"Jimmie Castlewood."
1916	*Harold W. Sanford	Springfield	Second assistant engineer.	– –
1917	*Ernest C. Jensen	Provincetown	Second assistant engineer.	"Lydia."
1917	Herbert A. James	Wellesley Farms	Second assistant engineer.	"Lake Lida."
1917	*John T. Foye	Bridgewater	Second assistant engineer.	– –
1917	Dwight W. Boyd	Randolph	Second assistant engineer.	"Lake Ellendale."
1918	Joseph Freeman	Revere	Second assistant engineer.	"Artegan."
1918	Ralph A. Evers	Somerville	Second assistant engineer.	– –
1918	Elmer J. Kelley	Springfield	Second assistant engineer.	"Lake Grogan."
1918	Stuart R. Colson	Whitman	Second assistant engineer.	"O. T. Waring."
1918	Leroy B. Lowey	Woods Hole	Second assistant engineer.	"Jonancy."
1918	Francis J. Easton	Randolph	Second assistant engineer.	"Branbrinno."
1918	Louis H. Johnson	Andover	Second assistant engineer.	"Lake Sapor."
1919	Thomas F. Cotter	Lawrence	Second assistant engineer.	– –
1919	Guy M. Hanna	Waltham	Second assistant engineer.	"Surinam."
1919	Frank J. Couble	Brockton	Second assistant engineer.	"Pocahontas."
1919	James F. Beatty	Lowell	Second assistant engineer.	"Alamoosa."
1919	Roger N. Walcott	Concord	Second assistant engineer.	"Calamares."
1904	Alfred C. Blunt	Fitchburg	Third assistant engineer.	"Faribault."
1904	Thos. F. Gosnay	Wakefield	Third assistant engineer.	– –

Officers in the Merchant Marine — Continued.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1907	Chas. S. McDonald	Malden	Third assistant engineer.	– –
1911	Walter P. Lynn	Beverly	Third assistant engineer.	"Lake Copley."
1911	Joseph C. Chisholm	No. Billerica	Third assistant engineer.	– –
1911	*Levi E. MacLeod	Gloucester	Third assistant engineer.	– –
1912	Walter L. Brewster	Somerville	Third assistant engineer.	"F. J. Lisman."
1913	*Nils J. Peterson	Brockton	Third assistant engineer.	– –
1914	Wesley H. Burton	Plainville	Third assistant engineer.	– –
1915	*Wilfred C. Herron	Lawrence	Third assistant engineer.	– –
1916	Carleton G. Reed	Lexington	Third assistant engineer.	– –
1916	Richard A. Standley	Beverly	Third assistant engineer.	"Lake Benton."
1917	Philip H. Little	Holbrook	Third assistant engineer.	"Lake Forney."
1918	John R. Carden	Haverhill	Third assistant engineer.	"Lake Fernwood."
1918	*Bernard F. Hurld	Stoneham	Third assistant engineer.	"Van Dyke."
1918	Karl W. Newman	Brockton	Third assistant engineer.	"De Soto."
1919	John D. Cunningham	Quincy	Third assistant engineer.	"Lake Sapor."
1919	George C. Clements	Lynn	Third assistant engineer.	"Vanguard."
1919	Dominik J. Cusolito	Somerville	Third assistant engineer.	"Malden."
1919	George E. Forsberg	Worcester	Third assistant engineer.	"Anaconda."
1919	Carl W. Holmes	No. Easton	Third assistant engineer.	"City of Rome."
1919	Charles B. Mitchell	Lawrence	Third assistant engineer.	"Malden."
1919	Harding Smith	Nantucket	Third assistant engineer.	"Floridian."
1919	Charles H. Stickel	E. Lynn	Third assistant engineer.	"Bylayl."
1920	James N. Oldroyd	Lynn	Third assistant engineer.	"Lake Butler."
1920	Earle F. Clegg	Worcester	Third assistant engineer.	"Puget Sound."
1920	William R. Hendy	Stow	Third assistant engineer.	"Lake Frazee."
1920	Joseph F. Burke	Everett	Third assistant engineer.	"Point Loma."
1920	Robert D. Mariner	Cambridge	Third assistant engineer.	– –
1920	Ralph B. Warner	Marlborough	Third assistant engineer.	– –
1920	*Joseph H. Donahue	Lawrence	Third assistant engineer.	Gulf Refining Company.
1920	Arthur G. Berteaux	Boston	Third assistant engineer.	"Seneca."
1920	*Chesley L. Kenyon	Huntington	Third assistant engineer.	"Lake Elsah."
1920	John D. Young	Winthrop	Third assistant engineer.	"Selitz."
1920	Charles J. Gibson	Beverly	Third assistant engineer.	"Crabtree."
1920	John L. Flanagan	Lawrence	Third assistant engineer.	"Riverside Bridge."
1920	Joseph H. Flanagan	Lawrence	Third assistant engineer.	"Lake Lasang."
1921	Frederick L. Murphy	Roxbury	Third assistant engineer.	"Calamares."
1921	William J. Noonan, Jr.	Mansfield	Third assistant engineer.	"Western Plains."

Officers in the Merchant Marine — Concluded.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1895	Horace W. Folger	Wilmington	Pilot	Boston Pilot Boat Service.
1900	I. Clarence Bailey	Kingston	Pilot	Boston Pilot Boat Service.
1902	*Arthur T. Luther	Swansea	Pilot	Panama Canal.
1902	Osborne E. McKay	Sagamore	Pilot	Panama Canal.
1915	David P. Delano	Orleans	Harbor master	Clyde & Mallory Lines.

Ship Construction.

1898	Joseph E. Sheedy	Reading	Assistant to president.	Downey Shipbuilding Corporation, Staten Island, N. Y.
1901	David W. Warren	Everett	Master mechanic	Curtis Bay Copper Iron Works.
1903	Edward J. Hogan	Charlestown	Assistant superintendent.	Victory Plant, Squantum.
1909	Stanton Haversham	Bridgeport	Hull draftsman	Lake Torpedo Boat Company.
1911	Henry W. Ober	Everett	Electrician	Fore River Shipbuilding Company.
1912	Joseph B. Sylvaro	Dorchester	Electrician	Fore River Shipbuilding Company.
1902	Edw. J. Campbell	Dorchester	Engineman	Navy Yard, Boston.

With United States Shipping Board, Emergency Fleet Corporation.

1895	Charles H. Lincoln	Detroit, Mich.	Marine surveyor and inspector.	– –
1897	Alden H. Adams	Groton, Conn.	First-class loftsman.	Groton, Conn.
1901	Frank A. Browne	Westborough	General purchasing agent.	Philadelphia, Pa.
1911	Arthur McArdle	Sandwich	Inspector, engineering.	Wilmington, Del.
1913	Arnold A. Laskey	Oakland, Cal.	Erecting engines	Oakland, Cal.

Instructors.

1900	*Gershom Bradford, 2d	Duxbury	Instructor in navigation.	Bradford Navigation School.
1906	*Howard G. Copeland	Malden	Executive officer	U. S. S. "Nantucket."
1907	Calvin N. Simonds	Needham	Assistant engineer	U. S. S. "Nantucket."
1909	*Ervin L. Kelley	Medford	Chief engineer	U. S. S. "Nantucket."
1912	John W. Thompson	Fairhaven	Navigating officer	U. S. S. "Nantucket."
1912	Norman E. Merrill	Walpole	Watch officer	U. S. S. "Nantucket."

In the United States Naval Reserve Force.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1894	William W. Ramsay	Cambridge	Commander	U. S. S. "Eagle, No. 29."
1902	Fred C. Seibert	Greenfield	Commander	U. S. S. "Cæsar."
1903	Harry M. Bostwick	Conimicut, R. I.	Commander	U. S. S. "Nereus."
1906	William H. Lee	Medford	Commander	U. S. S. "Houston."
1908	Ernest F. Robinson	Greenville, N. H.	Commander	U. S. S. "Patoka."
1896	James H. B. Meehan	Newport News	Lieutenant Commander.	U. S. S. "Proteus."
1900	Winthrop R. Cutts	Stoneham	Lieutenant Commander.	U. S. S. "Houston."
1902	Arthur P. Jensen	Provincetown	Lieutenant Commander.	U. S. S. "Celtic."
1906	Bradford N. A. Gladding	Norfolk	Lieutenant Commander.	U. S. S. "Kanawha."
1907	Harry L. Chick	Beverly	Lieutenant Commander.	Fifth Naval District.
1909	Eric E. Winquist	Mattapan	Lieutenant Commander.	U.S.S. "Arethusa."
1911	Frederic J. Shaw	Boston	Lieutenant Commander.	U. S. S. "Long Beach."
1912	William A. Hamilton	Portsmouth	Lieutenant Commander.	U. S. S. "Patoka."
1895	Wm. J. Fitzgerald	Wakefield	Lieutenant	Navy Yard, Boston.
1898	Richard Rowles	Jamaica Plain	Lieutenant	U. S. S. "Mercy."
1908	Harold Larner	Cambridge	Lieutenant	Navy Yard, Boston.
1912	Clarence L. Howard	Wellesley Farms	Lieutenant	U. S. S. "Neches."
1914	Ten Eyck H. Reed	So. Framingham	Lieutenant	U. S. S. "Galveston."
1915	Leif H. Konrad	Roslindale	Lieutenant	U. S. S. "Cæsar."
1911	Roy G. Whittemore	Malden	Ensign	Receiving Ship, Charleston, S. C.

In the United States Navy.

1898	Clarence E. Wood	Tiverton, R. I.	Commander	U. S. S. "Panther."
1907	Thomas Baxter	So. Dennis	Lieutenant Commander.	Bethlehem Shipbuilding Corporation, Quincy.
1898	Herbert E. Fish	Charlestown	Lieutenant	U. S. S. "Prairie."
1899	Leroy Neil	Lynn	Lieutenant	Westinghouse Electric Manufacturing Company, Pittsburg, Pa.
1902	John F. Murphy	Worcester	Lieutenant	Naval Experimental Station, Annapolis, Md.
1904	Harold J. Dunne	Canton Junction.	Lieutenant (junior grade).	U. S. S. "Cowell."
1906	Caleb A. Holbrook	Canton	Lieutenant (junior grade).	U. S. S. "MacKenzie."
1906	William R. Dolan	Worcester	Ensign	New York City.

In the United States Navy — Concluded.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1910	Russell H. Sullivan	Westfield	Ensign	U. S. S. "Sapelo."
1916	Darrough S. Gurney	Marion	Ensign	U. S. S. "Kennison."
1917	Philip G. Nichols	Peabody	Midshipman	U. S. Naval Academy.
1904	C. George Dyson	No. Billerica	Gunner (T) (gyro)	U. S. S. "Camden."
1906	Carroll L. Morgan	Beverly	Gunner (T)	Radio Station, Cayey, P. R.
1910	George F. Griswold	Roslindale	Gunner's mate	Recruiting duty, Lima, O.
1903	Martin H. Greeley	So. Boston	Chief machinist's mate.	U. S. S. "Galveston."
1894	Philip Macomber	Allston	Chief boatswain's mate.	U. S. S. "Putnam."

Officers of the United States Marine Corps.

1903	Leander A. Clapp	Brockton	Major	Quantico, Va.
1906	Clarence E. Nutting	Washington	Major	Parris Island, S. C.

Officers in the United States Coast Guard Service.

1895	Philip W. Lauriat	Medford	Lieutenant Commander.	U. S. C. G. "Acushnet."
1896	Webb C. Maglathlin	Bridgewater	Lieutenant Commander.	U. S. C. G. "Ossipee."
1897	Lorenzo C. Farwell	Dorchester	Lieutenant Commander.	United States Shipping Board, Buenos Aires.
1897	Albert F. Patterson	New York	Lieutenant Commander.	Mail Department, Third Naval District.
1899	James A. Alger	Reading	Lieutenant Commander.	Executive officer, U. S. C. G. Academy, New London, Conn.
1906	William F. Towle	Boston	Lieutenant Commander.	Division supervisor of communications, N. Y. City.
1906	Henry C. Roach	New Bedford	Lieutenant Commander.	U. S. C. G. Academy, New London, Conn.

United States Steamboat Inspection Service.

1902	Herman T. Parker	Rockport	Inspector of hulls	Boston, Mass.
1899	Frank B. Davis	Dorchester	Assistant inspector of boilers.	Boston, Mass.
1900	James F. Rawdon	Worcester	Assistant inspector of boilers.	Providence, R. I.

Officers of the United States Lighthouse Service.

Graduated.	Name.	Residence.	Position.	Vessel or Service.
1895	George E. Eaton	Woods Hole	Superintendent	Second Lighthouse District, Boston, Mass.
1904	John F. Williamson	Brockton	Captain	U. S. L. H. T. "Columbine."
1905	Harry W. Maynard	Milwaukee	Captain	U. S. L. H. T. "Hyacinth."

In the Hydrographic Office, Navy Department.

1913	*George W. Sullivan	Washington	Nautical expert	Washington, D. C.
1918	Alex. G. Anderson	Dorchester	Nautical expert	Washington, D. C.
1919	Charles B. Scully	Rockland	Nautical expert	Washington, D. C.
1919	Richard R. McNulty	Gloucester	Nautical expert	Washington, D. C.
1919	Arthur O'Leary	So. Boston	Nautical expert	Washington, D. C.
1920	*Mortimer P. O'Sullivan	Medford	Nautical expert	Washington, D. C.

Appropriations.

The appropriations for the school for the fiscal year 1921, from Dec. 1, 1920, to Nov. 30, 1921, are here accounted for, as follows: —

Expenses of School Ship.	Appropriation.	Expenditures.	Difference.
Personal services	$44,662 00	$43,835 06	$826 94
Travel, transportation and office expenses	1,643 00	1,958 45	315 45
Food	23,519 09	21,946 80	1,572 29
Clothing	75 00	–	75 00
Furnishings and household supplies	1,220 00	1,468 96	248 96
Medical and general care	1,213 00	1,683 69	470 69
Heat, light, power, etc.	11,700 00	11,361 47	338 53
Repairs, ordinary	1,705 00	3,235 64	1,530 64
Miscellaneous	2,660 00	2,673 69	13 69
Appropriation by the Commonwealth[1]	$88,397 09	$88,163 76	
Unexpended balance	. . .	233 33	
	$88,397 09	$88,397 09	

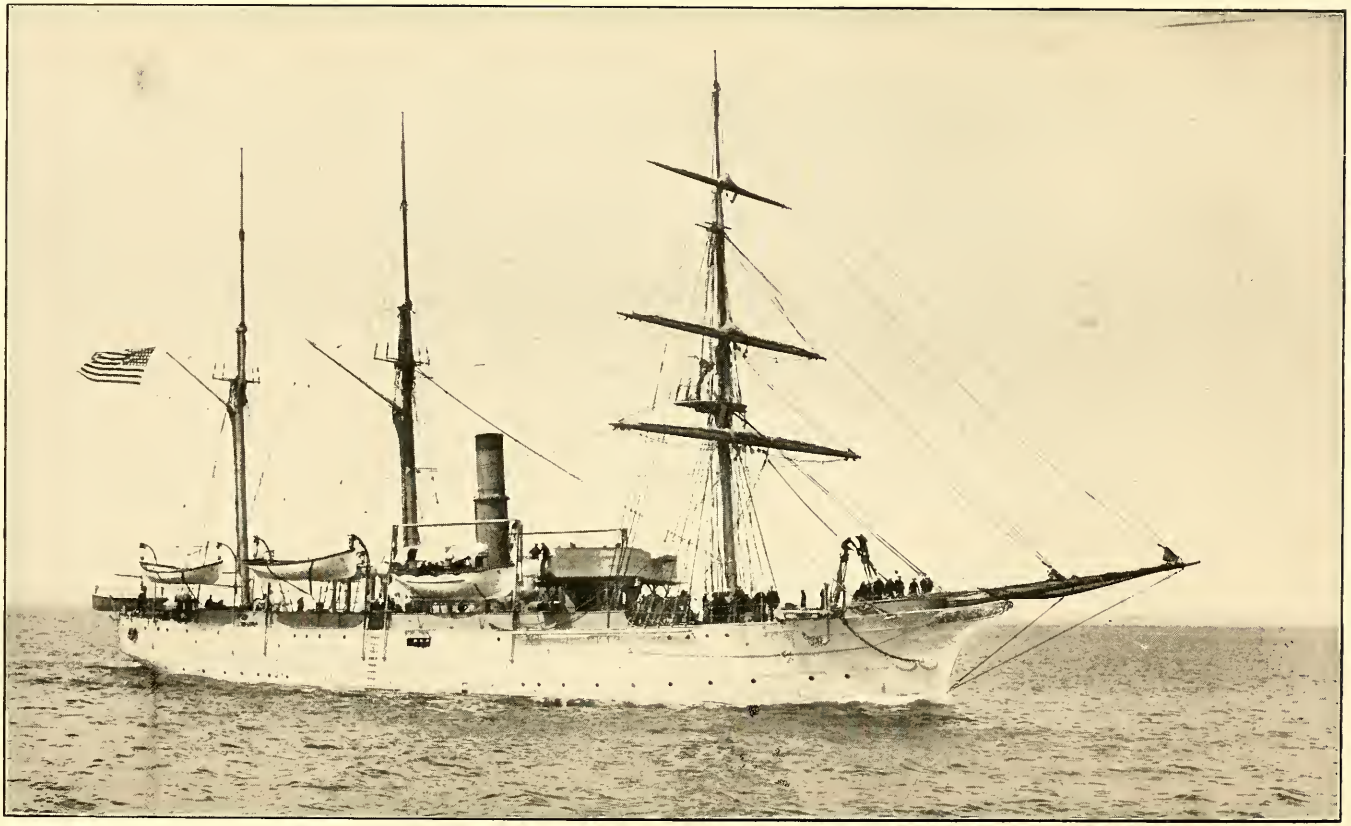
Expenses of Commission.	Appropriation.	Expenditures.	Difference.
Personal services	$3,960 00	$3,900 00	$60 00
Unexpended balance	. . .	60 00	
	$3,960 00	$3,960 00	
Office supplies and equipment	$272 00	$245 02	$26 98
Traveling and other services and expenses	2,328 00	2,356 45	25 06
Retirement fund allowance	3 39		
Appropriation by the Commonwealth[1]	$2,603 39	$2,601 47	
Unexpended balance	. . .	1 92	
	$2,603 39	$2,603 39	

[1] The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department towards the maintenance of the school, reducing the net cost to the State by that amount.

Respectfully submitted,

FRANCIS T. BOWLES, *Chairman.*
WILLIAM E. McKAY.
CLARENCE E. PERKINS.

Boston, Dec. 1, 1921.



The "Nantucket" leaving Boston on the Annual Summer Cruise.

Public Document No. 42

The Commonwealth of Massachusetts

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1922

MASSACHUSETTS NAUTICAL SCHOOL
DEPARTMENT OF EDUCATION

BOSTON
WRIGHT & POTTER PRINTING CO., STATE PRINTERS
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Publication of this Document
approved by the
Supervisor of Administration.

The Commonwealth of Massachusetts

Department of Education,
Boston, Dec. 15, 1922.

To the Honorable Senate and House of Representatives.

Gentlemen: — In accordance with section 32 of chapter 30 of the General Laws, I transmit to you herewith, for the use of the General Court, the annual report of the Massachusetts Nautical School for the year 1922.

Respectfully yours,

PAYSON SMITH,
Commissioner of Education.

The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION.

PAYSON SMITH, *Commissioner of Education.*

ADVISORY BOARD OF EDUCATION.

THE COMMISSIONER OF EDUCATION, *Chairman, Ex Officio.*

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14 Beacon Street, Boston.

FRANCIS T. BOWLES, *Chairman.*
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WILLIAM H. DIMICK, *Secretary.*

DEPARTMENT OF EDUCATION.

Division of Elementary and Secondary Education and Normal Schools.
Division of Vocational Education.
Division of University Extension.
Division of Immigration and Americanization.
Division of Public Libraries.
Division of the Blind.
Teachers' Retirement Board.
Massachusetts Nautical School.
Massachusetts Agricultural College.
Bradford Durfee Textile School, Fall River.
Lowell Textile School.
New Bedford Textile School.

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The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION, MASSACHUSETTS NAUTICAL SCHOOL.

REPORT OF THE COMMISSIONERS.

To the Commissioner of Education.

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending Nov. 30, 1922, — the thirty-first annual report.

The Massachusetts Nautical School is a public school which provides a vocational education for high school boys. The course includes two years of practical and theoretical instruction in navigation, seamanship, marine engineering and electricity, to prepare young men, entering at seventeen to twenty years of age, the sons of citizens of Massachusetts, for service as officers in the merchant marine. Classes are admitted semiannually by competitive examination. The examinations take account of recommendations of character, physical qualifications and aptitude, as well as studies. The school is popular, as the applications largely exceed the capacity. Not infrequently there are four or five applicants for every vacancy.

The school is conducted on board the U. S. S. "Nantucket," a steam vessel with sail power loaned by the navy. The commanding officer, the superintendent of the school, has always been a commissioned officer of the United States Navy, active or retired, employed by the Commonwealth. The officers and instructors, with the exception of the surgeon and paymaster, are either graduates of the school or officers detailed by the United States Navy.

The administration of the school is placed by law in charge

of three unpaid commissioners appointed by the Governor, acting now as a division of the Department of Education. Many distinguished officers of the navy and the merchant marine have served on this commission.

The ship cruises at sea from May until October, and is moored at North End Park, Boston, in the winter. The capacity of the ship limits the school to a total complement of 116 cadets.

History of the Nautical School.

In 1874 Congress passed an act to encourage the establishment of State public marine schools, authorizing the navy to furnish on application of a State a suitable vessel with equipment. New York accepted the act and established a school in 1876, and Pennsylvania in 1884. The Legislature of Massachusetts accepted the act in 1891, and the school was established on board the U. S. S. "Enterprise," loaned by the navy, in April, 1893. In 1909 the "Enterprise" was replaced by the U. S. S. "Ranger," since renamed the "Nantucket." By an act of Congress of 1911 the Federal government has since then contributed $25,000 annually to the maintenance of the school. Since the school was established, thirty years ago, 1,055 cadets have been graduated, qualified to obtain the United States license as either third officer or third assistant engineer. At present the school graduates an average of about 52 annually. Of the graduates and those who have attended the school, the register shows over 1,000 employed on board ship, or in connection with the merchant marine.

The Justification of a Nautical School for Massachusetts.

Activity of its citizens upon the sea dates from the earliest times in the history of Massachusetts. Its earnings from seafaring have been great, and its present wealth has been derived from, and its industries founded upon, capital acquired from sea traffic. The latest records of the Custom House show that vessels owned and hailing from the district of Massachusetts may be valued in excess of a hundred million dollars, and there

is, no doubt, a considerable ownership recorded in other districts.

During the year 1920 there were entered and cleared in the district of Massachusetts two and one-quarter million tons of American and foreign vessels in the deep-sea trade.

The occupation of the mariner not only develops the race in the following of a manly and adventurous occupation, but extends throughout the world a knowledge of the industries of Massachusetts, and its value as a place to live. It is a privilege of a coast State, blessed with fine harbors such as Massachusetts, to encourage its citizens to follow the sea.

The Cost.

For the present year the net cost of the school to the Commonwealth will be $64,189, and for the two years' course of each graduate, about $1,280. In addition to this expenditure by the Commonwealth on the maintenance of the school, the students themselves contribute $155 each, to cover the cost of their clothing and books for the two years' course. The Federal government, in addition to the annual cash contribution of $25,000, lends the vessel, whose replacement value is $400,000 to $450,000, maintains the ship and its equipment in repair, and also permits the Commonwealth to buy at cost from navy stores, thus contributing altogether more than half the cost of the maintenance of the school.

The Year 1922.

The year has been in many respects one of the most successful in the history of the school. The summer cruise was an unusual one in affording opportunities for practical work and instruction. The school has been filled to the limit of its capacity at the beginning of each term, and there has been the usual waiting list. The graduates of the year have all been appointed to positions at sea. Never before in its history has the school been more useful to the citizens of the Commonwealth. There is no other technical school maintained by the State in which the people take greater satisfaction or whose work they are more eager to encourage and support than the Nautical School.

The following letter recently received by the Commissioners will demonstrate the type of young men who find the Nautical School most serviceable: —

I enclose the application of my son for admission to the Massachusetts Nautical School. This boy has a natural inclination for a sea life, takes an interest in everything that pertains to ships and the sea, and has spent his summer vacations for the past few years on the island of Nantucket, sailing with an old captain of merchant vessels. He is a manly, straightforward sort of a chap, unusually keen, quick to learn, and has always been successful in his studies.

The writer served an apprenticeship in the United States Navy a number of years ago, and has spent two years before the mast on merchant ships. This training for me has been of great value, and I am anxious that my son follow his inclination and go to sea.

Cadets Admitted and Graduated.

During the year 74 cadets have been admitted to the school, 38 in the spring and 36 in the fall, all selected by competitive examination from 156 applicants, the sons of citizens of the Commonwealth. Diplomas were awarded after two years' instruction to 50 graduates, 23 in the spring and 27 in the autumn. Twenty-eight have left the school for various causes without completing the course. The average number of enrolled cadets in the school has been 113; each term has begun with a capacity enrollment of 116 cadets. The graduates of the school during the thirty years of its existence now number 1,055.

The School Record.

During the year there have been 188 students on the rolls of the school. They came from 79 cities and towns of the Commonwealth, as follows: —

Adams	2	Brockton	2
Amesbury	1	Cambridge	6
Attleboro	1	Chatham	1
Barnstable	3	Chelsea	1
Belmont	1	Danvers	1
Beverly	1	Dedham	1
Billerica	2	Dennis	1
Boston	18	Eastham	3
Bourne	1	Easton	4

Everett	3	Pembroke	1
Fall River	9	Provincetown	3
Falmouth	2	Quincy	3
Fitchburg	2	Revere	2
Framingham	1	Rockland	3
Gloucester	7	Rockport	2
Groton	1	Salem	2
Groveland	1	Shelburne	1
Haverhill	1	Sharon	1
Holyoke	2	Somerset	2
Lanesborough	1	Somerville	5
Lawrence	6	South Hadley	1
Leominster	1	Springfield	2
Lexington	1	Stoneham	1
Lincoln	1	Swampscott	2
Lowell	6	Swansea	1
Ludlow	1	Taunton	1
Lynn	9	Tewksbury	1
Malden	2	Wakefield	1
Manchester	4	Walpole	2
Marion	1	Wareham	1
Marlborough	7	Watertown	3
Medford	3	Wellesley	1
Melrose	3	Westborough	1
Millis	1	Weston	2
Milton	1	Whitman	1
Natick	1	Winthrop	1
Newton	2	Woburn	1
Needham	1	Worcester	6
North Adams	1		
North Andover	1		188
Norton	1		

Their previous education was as follows: high schools, 174; industrial schools, 3; academies, 3; grammar schools, 1; colleges, 3; technical schools, 5. The average age of the cadets at entrance was seventeen years and ten months. The number of cadets enrolled in the school at present is 111.

Occupations of Parents or Guardians.

Housewives	16	Managers	7
Salesmen	9	Engineers	6
Shoe workers	8	Mariners	6
Carpenters	8	Clerks	5

Machinists	5
Manufacturers	4
Farmers	4
Gardeners	4
Merchants	5
Foremen	3
Leather workers	3
Blacksmiths	2
Letter carriers	2
Laborers	2
Motormen	2
Signalmen	2
Bankers	2
Chauffeurs	2
Lawyers	2
Collectors	2
Truckmen	2
Physicians	2
Ship draftsmen	2
Coast guard surfmen	2
Police officers	2
Plumbers	3
Firemen	2
Steamfitter	1
Bookkeeper	1
Wool sorter	1
Police matron	1
Superintendent of city markets	1
Mason and bricklayer	1
Florist	1
Stitcher	1
Innkeeper	1
Treasurer of corporation	1
Painter	1
Mechanic	1
Dentist	1
Credit agent	1
Tire maker	1
Claim agent	1
Leather dealer	1
City employee	1
Foreman ship builder	1
Shipper	1
Proprietor, machine company	1
Proprietor, glass company	1
Lieutenant of police	1
Overseer, cotton	1
Superintendent of cotton mill	1
Sampler, cotton	1
Barber	1
Assistant clerk of court	1
President, auto company	1
Coachman	1
Rubber worker	1
General jobbing	1
Electrician	1
Cigar maker	1
Retired	1
Chemist	1
Real estate and insurance	1
Jeweler	1
Designer	1
Railroad conductor	1
Printer	1
Fisherman	1
Sheet metal worker	1
Milliner	1
Architect	1
Baker	1
Civil engineer	1
District engineer	1
Night watchman	1
Customs inspector	1
Customs guard	1
Trader	1
Secretary	1
Pilot	1
Mill operative	1
Supervisor, State hospital	1
Cloth inspector	1
Lieutenant, United States Navy	1
Mill engineer and architect	1
Traffic manager	1
Iron molder	1
Press helper	1
	188

Employment of Graduates.

There has been a good demand for the graduates of the school, the graduates of the year receiving appointments on board the following ships: —

S.S. "Texan"	United American Lines, Inc.
S.S. "Iowan"	United American Lines, Inc.
S.S. "Mount Clay"	United American Lines, Inc.
S.S. "Resolute"	United American Lines, Inc.
S.S. "Pennsylvanian"	United American Lines, Inc.
S.S. "Kentuckian"	United American Lines, Inc.
S.S. "Brush"	North Atlantic and Western Steamship Company.
S.S. "Munamar"	Munson Steamship Line.
S.S. "Calvin Austin"	Eastern Steamship Company.
S.S. "Casper"	International Freighting Corporation.
S.S. "El Sud"	Southern Pacific Company.
S.S. "El Alba"	Southern Pacific Company.
S.S. "George G. Henry"	Pan American Petroleum Company.
S.S. "Esparta"	United Fruit Company.
S.S. "San Bruno"	United Fruit Company.
S.S. "West Hebar"	Rogers & Webb.
S.S. "West Campgaw"	Rogers & Webb.
S.S. "Aledo"	C. H. Sprague & Son.
S.S. "W. A. McKenney"	Crowell & Thurlow Company.
S.S. "Amolco"	Crowell & Thurlow Company.
S.S. "Saco"	United States Shipping Board.
S.S. "Menominee"	United States Shipping Board.
S.S. "Aguimex"	Ward Line.
S.S. "Auk"	United States Coast and Geodetic Survey.

The Practice Cruise of 1922.

The "Nantucket's" practice cruise of 1922 was made to ports in the Mediterranean covering a total distance of 10,632 miles, sailing from Boston on May 6. The ship was twelve days making 2,063 miles to Terceira, in the Azores, about one-third of the time under sail alone. During the passage from Teneriffe to Norfolk, twenty-seven days, the weather was excellent, and nearly half the distance, 1,748 miles, was made under sail alone.

Cool and pleasant weather was experienced in the Mediterranean, health conditions in the various ports visited were good, and the health of the ship's company during the cruise was excellent. A complete account of the summer cruise will be found in the superintendent's report on page 24.

Governor's Inspection.

The annual inspection of the school by the Governor and Council was held on Tuesday, Sept. 19, 1922. The Lieutenant-Governor, Alvan T. Fuller, and Councillors Harry H. Williams of Brockton, John A. White of North Brookfield, William H. Dolben of Somerville, and Charles A. Southworth, executive secretary, came on board at the anchorage in Boston Harbor and conducted a careful inspection while the "Nantucket" was underway, both by steam and sail proceeding to the Boston Lightship and return.

Upon coming to anchor in the upper harbor the cadets were formed on the spar deck, and Lieutenant-Governor Fuller made them a short address.

The Fifty-fifth and Fifty-sixth Graduation Exercises.

The fifty-fifth graduation exercises of the school were held on board the "Nantucket," at the North End Park, Boston, at 11 A.M., on March 27, 1922.

Mr. Francis T. Bowles, chairman of the Board, presided. The exercises taking place on the spar deck were opened with prayer by Rev. Merritt A. Farren, secretary of the Boston Seamen's Friend Society. The presentation of a new set of colors was made by Hon. Frank G. Allen, president of the Massachusetts Senate.

The Alumni Association prizes were presented by Capt. William E. McKay to the following cadets: Kenneth C. Mayo, Provincetown, seamanship class; John D. Bosler, Holyoke, engineering class.

Dr. Payson Smith, Commissioner of Education, presented the diplomas to the members of the graduating class.

Bibles, the gift of the Massachusetts Bible Society, were pre-

sented to the members of the graduating class by Rev. Merritt A. Farren.

The address for the graduating class was made by Cadet Herbert A. Beaumont.

The Alumni Association was represented at the exercises by Capt. George F. Waite, district agent, United States Shipping Board, Boston; Capt. George E. Eaton, Superintendent, Second District, United States Lighthouse Service, Boston; Capt. Herman T. Parker, local inspector of steamboats, Boston; and W. Chester Gray.

The fifty-sixth graduation exercises of the school were held at 11 A.M., on Sept. 20, 1922, on board the "Nantucket," at the North End Park.

The chairman of the Board presided, and introduced Commissioner William E. McKay, who offered prayer in the absence of Rev. George H. Spencer.

The chairman of the Board spoke briefly before introducing Capt. Oscar C. Nickerson, president of the Boston Marine Society. Captain Nickerson's address was in part as follows: —

I have been asked to tell you briefly something about the Boston Marine Society, of which I am president at the present time.

The Boston Marine Society is the oldest marine society in the world, organized in 1742, and receiving its charter a few years later, from King George the Second of England, who then ruled these Provinces. Since that time it has always been vitally interested in the maritime affairs of Boston and Massachusetts.

Its counsel and advice has often been sought by both the national and State governments in matters relative to marine affairs, and it has often been vested with signal powers and privileges by these bodies.

At present it has a marine membership of about 300, composed of most of the prominent shipmasters of New England, and about 100 honorary members composed of many of the leading merchants of Boston and vicinity.

It donates about $20,000 each year among its needy members, their widows and orphans, and there is hardly a town or hamlet from Narragansett Bay to Mount Desert where some home has not been made brighter or some life happier by the helping hand of the society.

During the one hundred and eighty years of its existence, its members have carried the American flag into every known port on the face of the earth, and by their honesty and integrity have established a reputation for upright dealing among the natives and foreigners, until to-day the name of a Yankee shipmaster is honored and revered and looked up to as

a little above the average wherever you may go, from the hongs of China to the bazaars of farthest India, and in the very near future, when you take command of ship and engine room, it is to be your privilege and your burden to support and maintain these high standards that have been set for you by your predecessors.

You have received a training which pre-eminently fits you above all others for this purpose, for the education and discipline which you have received on board this good old ship is an asset invaluable to you and a privilege enjoyed by few. Although at times the tasks may have seemed hard and the discipline strict, in the years to come, when you yourselves are in command, you will realize as never before that no one is fit to command until they have first learned to faithfully obey.

Now in closing let me say to you that no matter whether you follow the sea for a livelihood or whether you stay on shore, the principles and precepts which you have been taught while on this ship must be the rule and guide of your conduct if you are to succeed in this life. If you make up your day's work and shape your course through life by the tenets which have been laid down for you here, you cannot fail to succeed, and not only will you succeed, but, what is vastly more important, the world will be better because you have lived in it.

Commissioner Clarence E. Perkins, on behalf of the Alumni Association, presented prizes (gold watches) to the following graduates: Eliot Olsen, Milton, seamanship class; Louis F. Harlow, North Easton, engineering class.

Bibles were presented to the graduates by Commissioner William E. McKay, with appropriate remarks.

Capt. Armistead Rust, U. S. N., awarded the diplomas to the graduates.

Cadet Scranton H. Redfield of Lynn responded on behalf of the graduates.

Lectures.

The following lectures were given on Wednesday evenings during the winter term 1921 and 1922: —

Mr. Harte Cook, McIntosh & Seymour Corporation. Subject: Marine Diesel Engines (Illustrated).
Mr. O. B. Whittaker. Subject: Gyroscope Compass.
Mr. John E. Macy. Subject: Admiralty Law.
Mr. R. J. Fitzgerald. Subject: Radio Compass.
Mr. E. O. Hunt, General Electric Company. Subject: Turbine Engines.
Prof. Harland T. Stetson. Subject: Astronomy.
Mr. A. A. Gathemann. Subject: Boiler Management.

School Exhibit.

An exhibition of the work of the school was made in the Girls' Latin School from July 2 to July 8, 1922, on the occasion of the convention of the National Education Association in Boston. The first equipment of the school was shown by a model of the U. S. S. "Enterprise," which was used as a training ship from 1893 to 1909. The following features of the work were exhibited by photographs mounted on cardboard: inspection of the school by the Governor and Council; the summer term; the winter term; instruction in turbine factory; graduation exercises; ships commanded by graduates; ships officered by graduates; the graduates of the school. Large photographs of the schoolship "Ranger" and of the cadets were also included in the exhibit.

Finances.

The cost of the maintenance of the Nautical School for the fiscal year 1921–22 amounted to $89,189, and was less than the appropriation by $3,411. The detailed financial statement is given on page 55.

Commissioner Appointed.

On July 1, 1922, Mr. Clarence E. Perkins of Winthrop was reappointed a Commissioner of the school for a term of three years.

Superintendent's Reports.

The following are the reports of Capt. Armistead Rust, U. S. N., superintendent: —

Winter Term, Oct. 19, 1921, to March 27, 1922.

Instruction in Navigation.

First and Second Classes.

1. Review of dead reckoning and the sailings.
2. Definitions relating to navigation and nautical astronomy.
3. Great circle sailing by the computation, graphic and terrestial globe methods.
4. Tides and tidal currents with the use of tide publications.

5. Charts, the care and use of; the abbreviations and symbols used, and the use of instruments in connection with charts.

6. Piloting, which included the horizontal and vertical danger angle, position by bearings and soundings, aids to navigation and the use of the pilot chart.

7. Construction of liquid and dry compasses and methods of compass adjusting. The cadets were given instruction in this subject, using the deviascope, which is a valuable addition to the equipment of the school.

8. Deviation calculating and plotting the curve on Napier's diagram.

9. The solar system and time and the Nautical Almanac.

10. The constellations and identification of stars in cloudy weather.

11. Sextants, the care, construction and use of. Practice in reading the different arc graduations and how to refinish sextant mirrors on board ship.

12. Navigational problems, spending about four days on each method, were then given, as follows: (*a*) meridian altitudes; (*b*) ex-meridian altitudes, graphic and computation; (*c*) workings by the constant; (*d*) latitude by the pole star; (*e*) latitude by Phi second, Phi prime method; (*f*) compass error by amplitude, time azimuth, and time and altitude azimuth; (*g*) time sight; (*h*) Sumner line by chord method, Marcq Saint Hilaire method, and finding the position of intersection of two Sumner lines by computation.

13. A third mate specimen examination was given previous to the final examination, and all cadets passed with a wide margin.

14. The final examination was held on March 24, including all subjects, and, in addition, the United States storm warnings.

Third and Fourth Classes.

1. Definitions relating to navigation.
2. Instruments and accessories to navigation.
3. Deviation and variation of the compass.
4. Leeway and currents, their effect.
5. Correction of courses.
6. Piloting, particularly bearing and distance of a known object. Two bearings of a known object and cross bearings.
7. Dead reckoning.
8. Plane, traverse, parallel, middle latitude and Mercator sailings; course and distance and position.
9. Definitions relating to nautical astronomy.
10. The sextant.
11. The care of chronometers and the chronometer rate and error.
12. Time and the Nautical Almanac.
13. Correction of observed altitudes.
14. The meridian altitude of the sun.
15. Time sight of the sun for longitude.

Instruction in Seamanship.

First and Second Classes.

1. Rules of the road:
   (*a*) International.
   (*b*) Inland.
   (*c*) Pilot.
2. Handling of cargoes.
3. Laws of the inspection service.
4. Handling of steamers in heavy weather.
5. Duties of a merchant officer.
6. All other duties of a third officer.
7. Ship construction and nomenclature.
8. Care and preservation of hull.

Third and Fourth Classes.

Third Class. — Nomenclature of anchors and chain, and marking of same; handling of kedge anchors in boats; mooring and unmooring; handling boats under oars and sails; hoisting boats in seaway; boat light, gear, etc.

Fourth Class. — Names and leads of all standing and running rigging; names and uses of all parts of sails; parts and fittings of yards and masts; instruction in helm, lead, compass, log, etc.

Practical Instruction in Seamanship.

1. Each member of the first class was required to make or assist in making an eye splice and long splice in wire; also to point a rope and assist in overhauling the rigging and sails, and in ship's work generally.

2. The second class was required to lay up sennet for mats, make hand and deck swabs, repair hammocks and assist in ship's work.

3. The third and fourth classes were given frequent work on the model. They were required to make all the knots, bends, hitches and splices in rope. They assisted in all work on sails and rigging, and made boat fenders, deck and hand swabs, and assisted in ship work.

4. All classes assisted in unrigging ship at the end of the summer term, and also in rigging ship at the end of the winter term.

Instruction in Engineering.

First and Second Classes — Theoretical.

Engineering metals; fuels; boiler construction; United States rules pertaining to boilers; engine types; reciprocating engine construction; turbine principles and construction; engine inspection; overhaul and repair; auxiliary machinery; steam valves and valve gear; engine in-

dicating; propulsion problems; boiler corrosion; boiler water testing by salinometer and chemical means; engine department routine; engineering calculations.

First and Second Classes — Practical.

Boiler overhaul and inspection; lathework; care of hull; fitting and adjustment of main engine parts; packing; overhaul and upkeep of dynamos, pumps and other engine room equipment; repair of electric light and power circuits and fixtures.

Third and Fourth Classes — Theoretical.

Units of measurement; heat; expansion of liquids, gases and solids; laws of Charles and Boyle; expansion of steam and effect on economy; expansion diagrams; horsepower calculations; effects of clearance and condensation; engine parts and functions; simple valve gears; compound engines; boiler principles.

Third and Fourth Classes — Practical.

Care of hull; painting; coal stowage; boiler cleaning; names of engineroom and fireroom fittings; assisting senior cadets.

The "Balopticon," purchased last fall, proved a great help in teaching, particularly in connection with turbines. A large selection of slides and catalogues, illustrating practically all common types of marine equipment, was obtained free of charge from the manufacturers of the equipment, and, projected by the "Balopticon," gave an excellent idea of the various machines. The opaque projector enables cuts and drawings of ordinary size to be shown nearly as well as the slides.

Instruction in Electricity.

First and Second Classes — Theoretical.

Review; carrying capacity of wires; complicated circuits; power problems; operating problems; motor and dynamo details; dynamo troubles and repairs; cost calculations.

Third and Fourth Classes — Theoretical.

Units of measurement; circuits; Ohm's law; calculations from Ohm's law; fuses, switches and batteries; bell wiring circuits; short circuits and grounds; dynamos and motors.

First and Second Classes — Practical.

Care and operation of the electric plant of the ship and making necessary repairs to lighting equipment.

Instruction in Mathematics.

1. Arithmetic:
   (1) Percentage.
   (2) Ratio and proportion — "rule of three."
   (3) Problems concerning work.
   (4) Problems in rates meeting and overtaking.
   (5) Mensuration.
2. Logarithms:
   (1) The fundamental principles involved.
   (2) Use of tables.
   (3) Solutions of practical problems.
3. Algebra:
   (1) Addition.
   (2) Subtraction.
   (3) Multiplication.
   (4) Division.
   (5) Simple and quadratic equations and problems.
   (6) Square and cube roots. Exponents.
4. Plane geometry:
   (1) Definitions.
   (2) Fundamental theorems and problems.
5. Solid and spherical geometry:
   (1) Definitions.
   (2) Fundamental theorems.
   (3) The spherical triangle.
   (4) Mensuration.
6. Plane trigonometry:
   (1) Definitions and functions of angles.
   (2) Limits and the signs of the functions of angles.
   (3) The solution of plane triangles.
7. Spherical trigonometry:
   (1) The astronomical triangle.
   (2) Napier's rules.
   (3) The solution of spherical triangles.

Instruction in English.

First and Second Classes.

1. United States navigation laws.
2. Admiralty law.

Third and Fourth Classes.

1. English.
   (1) Paragraphing.
   (2) Rules of punctuation.
   (3) Letter writing.
   (4) Narration.
2. Civil government.
   (1) United States Constitution.
   (2) Bill of Rights.
   (3) Other governments.

Instruction in Military Drill and Tactics.

1. The winter term furnished less opportunity for military drill than any previous term, principally on account of the inclement weather, and particularly the large amount of snow and rain. Added to this was the fact that the park was in poor condition much of the time.

2. In spite of the lack of drill, a fairly creditable battalion was organized and appeared in the Evacuation Day parade in South Boston, the only organization not strictly a military unit to win a place in the military and naval division. Their appearance in public at this time was particularly timely, considering the agitation regarding the future of the school, and reflected great credit upon the cadets and solicited many favorable comments in the press and on the part of individuals who witnessed the parade.

3. The stand of dress colors provided by the Commissioners is an important addition to the equipment of the battalion.

4. It is believed that no fitting opportunity for the cadet to appear in public should be neglected because of the beneficial effect their appearance has upon the cadets, and it enables the public to become more fully acquainted with the school and its work.

The Summer Term, April 26, 1922, to Sept. 20, 1922.

The Cruise of 1922.

The "Nantucket" sailed from Boston on May 6 and proceeded to Marblehead, Mass., for the purpose of "swinging ship" for compass deviation. After anchoring off Marblehead for a few hours she returned to Boston the same evening. During the day the crew was stationed and exercised at emergency drills.

On May 8 the Commissioners came on board and inspected the ship and personnel; the ship was coaled on the 9th, and sea stores and fresh provisions received on the 10th.

Boston to Angra, Terceira and Ponta Delgada, San Miguel, Azores.

The "Nantucket" sailed from Boston in the forenoon of May 11 and arrived at Angra, Island of Terceira, Azores, about noon, May 23, after a rather rough passage for the season of the year. About one-third of the passage was made under sail alone, one-half under sail and steam, and about one-sixth under steam only. During the first part of the passage the weather was cold and raw, but the health of the cadets was in general very good, with the exception of a few colds.

While at Angra the United States consul called on board and went with the commanding officer to call on the civil and military governors, who returned the visits, being received with appropriate honors. On May 24 the ship sailed for Ponta Delgada, where she arrived the next morning. The consul of the United States, Maj. Drew Linard, called, and the next day his call was returned, and he accompanied the commanding officer when he called on the governor, the commanding officer of the military forces and the captain of the port. The last two calls were returned the same day. Mr. G. F. Staub, the port representative of the United States Shipping Board, also called and tendered his services. The cadets were given afternoon liberty at Angra and Ponta Delgada. The stay at the Azores, though short, was most enjoyable, and no doubt all the cadets felt amply repaid for the discomforts of the passage when they went ashore on these beautiful islands.

Gibraltar, Malaga and Port Mahon.

The ship sailed from Ponta Delgada, Azores, in the forenoon of May 27, and arrived at Gibraltar about 9 A.M., June 1. The first part of the passage was somewhat rough, with a head wind and a choppy sea, in consequence of which about one-half of the cadets were seasick at first.

Upon arrival at Gibraltar an officer sent by Vice-Admiral H. B. Pelly, Royal Navy, the commander-in-chief at Gibraltar, came on board; the commanding officer visited the Admiral the same day, which call was returned by the chief of staff the next day. Visits were also exchanged with the United States consul, Mr. R. L. Sprague.

June 3 being the anniversary of the birth of His Britannic Majesty King George V, the "Nantucket," full-dressed ship, with the British ships in port, and the commanding officer, with another officer, attended the governor's reception given in honor of the day.

Both watches were given liberty in the afternoons, the first and second classes until 9 P.M., and the third and fourth classes until 7.30. The weather was cool and pleasant during this stay of the ship at Gibraltar.

Admiral Pelly furnished a tug to shift the "Nantucket" to the coal dock and back to the buoy after coaling.

The "Nantucket" sailed from Gibraltar about noon, June 6, and arrived at Malaga, Spain, about 8 P.M. the same day. The next morning

a boarding officer from the Spanish battleship "Alfonso XIII" called on board, and also the United States consul, Mr. Gaston Smith. The commanding officer called on the captain of the "Alfonso XIII," and the call was returned the next day. On June 8 the consul accompanied the commanding officer when he called on the civil governor, the commandant of the port, the commanding general and the alcalde, all of which visits were returned in person.

The cadets were given liberty from 1.30 P.M. until sunset. The health of the port was good and the weather cool and pleasant.

The ship sailed from Malaga, Spain, on the evening of June 10, and after a smooth passage arrived at Port Mahon, Minorca, in the afternoon of the 13th.

Upon arrival a boarding officer from the commandant of the naval station visited the ship and extended the courtesies of the port. The next day the commanding officer called on the commandant of the naval station, the civil governor, the captain of the port, and the governor-general commanding the military forces, all of which calls were returned in person.

There is no representative of the United States consular service at Port Mahon, but the French consular agent, M. Carlos Moysi, very courteously rendered all necessary assistance. It was reported that no vessel of the United States Navy of any kind had been in this port for twenty-two years. The harbor and town are unique and picturesque, and the place is of interest on account of having been the headquarters during the winter of the United States Mediterranean Squadron many years ago, and was frequently visited by the old frigate "Constitution;" many of the natives of the islands had served on our ships.

Civita-Vecchia and Naples.

The "Nantucket" sailed from Port Mahon early on June 15, and arrived at Civita-Vecchia, Italy, early in the forenoon of the 17th.

Soon after leaving Port Mahon the ship encountered a fresh head wind which increased in force to a moderate to fresh gale from North and N'd and E'd, with very heavy rain squalls and rough sea, but the weather moderated before night and was good for the remainder of the passage. On the evening of the 16th, about sunset, the ship passed through the Strait of Bonafacio, between Corsica and Sardinia, and the ship's company was favored with a very striking view of these rugged islands.

The captain of the port visited the ship as soon as she arrived at Civita-Vecchia; the commanding officer returned his visit and also called on the prefect, the commanding officer of the military forces and the mayor, all of which visits were returned in person.

During the stay at Civita-Vecchia the weather was cool and pleasant. All of the cadets were given three days' leave to visit Rome, one watch at a time, the executive officer making arrangements so that they received excellent accommodations at hotels at very reasonable rates.

An audience was arranged with His Holiness Pope Pius XI which all of those of the Roman Catholic religion among the officers, cadets and crew attended. His Holiness received them in a most cordial manner and presented each with a medal.

The "Nantucket" sailed from Civita-Vecchia in the afternoon of June 23, arriving at Naples the next afternoon. A naval officer made the usual boarding visit, and on Monday, June 26, the commanding officer called on the United States consul, Mr. J. S. Byington, who sent one of his staff to accompany him when he called on the senior naval officer, Vice-Admiral Alfred Acton, the commanding general, the prefect, and the commandant of the naval base, Captain Duca di Longano Monaco. The cadets, by watches, visited the ruins of Pompeii and many of the other places of interest in and about Naples, and on leaving Naples the ship coasted so close to Sorrento and the Island of Capri, and such a good view was obtained of these most beautiful places, that it was almost equivalent to a visit ashore.

Tunis and Algiers.

The ship left Naples in the forenoon of June 30 and arrived at Tunis in the forenoon of July 2, the latter part of the passage being rather rough.

On Monday, July 3, the United States vice-consul, Mr. B. Boylard, called on board and arranged for the commanding officer to call on the commanding general and the French minister. These calls were made the next day, the minister sending an officer to return the call the same day, and the general returning the visit the following day. The vice-consul's call was also returned.

On July 4 the ship was full dressed in honor of the day, and the cadets had various athletic contests, including boat and swimming races, tug-of-war and diving. Both watches were given liberty, and some were sufficiently interested in ancient history to visit the site of Carthage, which is only about eight miles distant and accessible by trolley car. There is a very interesting museum there, and considerable excavation has been done which discloses ruins of the ancient city. The weather while at Tunis was very pleasant, the highest temperature at noon being 82 degrees.

The "Nantucket" sailed from Tunis in the forenoon of July 5 and arrived at Algiers at about 9 P.M., July 7. At about 3 P.M., July 7, passed and spoke the U. S. S. "Ashville" bound to Malta, and about 6.30 P.M. passed the following vessels of the United States Navy, which had left Algiers that day: United States destroyers Nos. 224, 225, 226, 227, 228, 229, 230, 244, 342, 343, 344, 345 and 347.

On July 8 the United States vice-consul visited the ship, and the next day the consul, Mr. E. A. Dow, called, and on the 10th he went with the commanding officer to call on the commandant of the naval station, which call was returned.

Both watches were given liberty here. The weather was cool and pleasant. As there was a band concert in a park near by every evening,

and many interesting sights in and about the city, the cadets enjoyed their stay at this port very much. The excellent conduct and bearing of the cadets while on shore was the subject of favorable comment in one of the newspapers of the city.

The "Nantucket" sailed from Algiers in the forenoon of July 11, and arrived at Gibraltar in the afternoon of July 14 after a pleasant passage of which about one-half was made under sail alone. Eight United States destroyers were in port and sailed the next day for home, carrying mail from this ship. Calls were exchanged with the commanding officer of the Flotilla. The commanding officer called also on Vice-Admiral H. B. Pelly, Royal Navy, and made arrangements to obtain supplies from the dock yard, and for a tug to shift berth from the buoy to the coal dock and return on the 18th. Visits were also exchanged with the consul of the United States of America, Mr. R. L. Sprague. The cadets of both watches were given liberty.

Santa Cruz de Teneriffe to Norfolk, Va.

The "Nantucket" sailed from Gibraltar in the afternoon of July 19 and arrived at Santa Cruz de Teneriffe about dark on July 23 after a pleasant passage, the great part of which was made under sail alone.

On July 24 and 25 calls were exchanged with the United States consul, Mr. F. A. Henry, the captain-general, civil and military governors, the captain of the port, and the alcalde. The consul accompanied the commanding officer on these visits. The cadets were given liberty, and the stay at this port was very pleasant and interesting. From the anchorage the high peak of Teneriffe was visible.

The day before leaving Santa Cruz, Seaman Axel Carlson broke his left leg which was promptly and carefully set by the ship's surgeon, Dr. Hoffman. This was the only accident that occurred to any one during the cruise.

The ship made sail from the anchorage at Santa Cruz in the afternoon of July 26. During the passage to Norfolk through the trades the weather was excellent. Instruction was given to all classes every afternoon, and great interest was shown in navigation by the first and second classes in taking observations of the stars morning and evening, in addition to those of the sun. Nearly one-half of the distance to Norfolk, or 1,748 miles, was made under sail alone, with enough coal remaining to proceed to Washington without coaling at Norfolk, the last coal having been received at Gibraltar.

The "Nantucket" arrived at Norfolk in the afternoon of August 22. The next day the commanding officer called on the commandant of the Navy Yard, Norfolk, and made arrangements to obtain supplies from the Navy Yard. Arrangements were also made to coal ship on returning from Washington. This call was returned in person.

The ship's bottom was cleaned of all grass and marine growth above

the water line and as far down as could be reached; the cadets were given liberty.

The "Nantucket" sailed from Norfolk, Va., in the early morning of August 26 and arrived at Washington, D. C., about 6 P.M., August 27. While passing Mount Vernon honors were rendered to the memory of Gen. George Washington, as required by the navy regulations.

While at Washington the commanding officer called on the commandant of the Navy Yard, the chief of naval operations, the chief of the Bureau of Navigation, the chief of the Bureau of Engineering, the chief of the Bureau of Construction and Repair, and the chief of the Bureau of Supplies and Accounts.

The cadets were given as much liberty while at Washington as the ship's work would allow, and the navigator took the first and second classes out to the Naval Observatory to inspect the place.

The "Nantucket" sailed from Washington at 10 P.M., September 5, and arrived at Norfolk, Va., about 5.30 P.M., on the 7th.

As is customary while in Chesapeake Bay and the Potomac River, the cadets of the first and second classes were divided into squads of four for the purpose of practicing taking bearings and plotting the position of the ship, each squad taking a trick of two hours on the bridge, when it was relieved by the next. This practice was continued all the time the ship was in these waters.

After coaling ship and receiving provisions and stores on the 8th, the cadets were given liberty, and on the 10th, at 6 A.M., the ship proceeded to Nantucket where she arrived about 1 P.M., September 12. On the 11th the new life buoy, fitted with reel and wire designed to pick up a man without lowering a boat, was tested. Seaman Karl J. Hermanson volunteered to go overboard to test the buoy. He jumped from the port cathead, reached the buoy in fifteen seconds, and was on board ship again in four and one-half minutes, the ship making about 8 knots at the time. The crew was standing by the lifeboat, but it was not lowered.

On September 14 the executive officer, Commander H. G. Copeland, landed with the cadet battalion and marched to the fair grounds, where Camp Bowles was established, permission to use the grounds having been obtained previously from the proper authority. While the battalion was on shore, the gun deck was painted by the crew and a few cadets who remained on board. The landing party returned to the ship in the afternoon of the 16th.

At 8 A.M., September 17, the "Nantucket" sailed for Boston, where she arrived about 11.30 P.M. the same evening.

In the afternoon of September 19, Lieut.-Gov. Alvan T. Fuller, accompanied by the Governor's Council and the Commissioners, came on board to inspect the ship. The "Nantucket" proceeded down the bay to the vicinity of the Graves Light, when the ship was put about and all plain sail made, exercised at man overboard, and lowered life boat. Returned to the anchorage off State Street under steam and sail about 3.40 P.M.,

when Lieutenant-Governor Fuller made the cadets an appropriate address. About 4.30 the ship got underway and went alongside the pier at North End Park.

Value of the Cruise.

This cruise of the "Nantucket" may have been equaled by other cruises in the past, but it is the belief of the superintendent that it has never been excelled, when all of the favorable conditions of the cruise are taken into consideration.

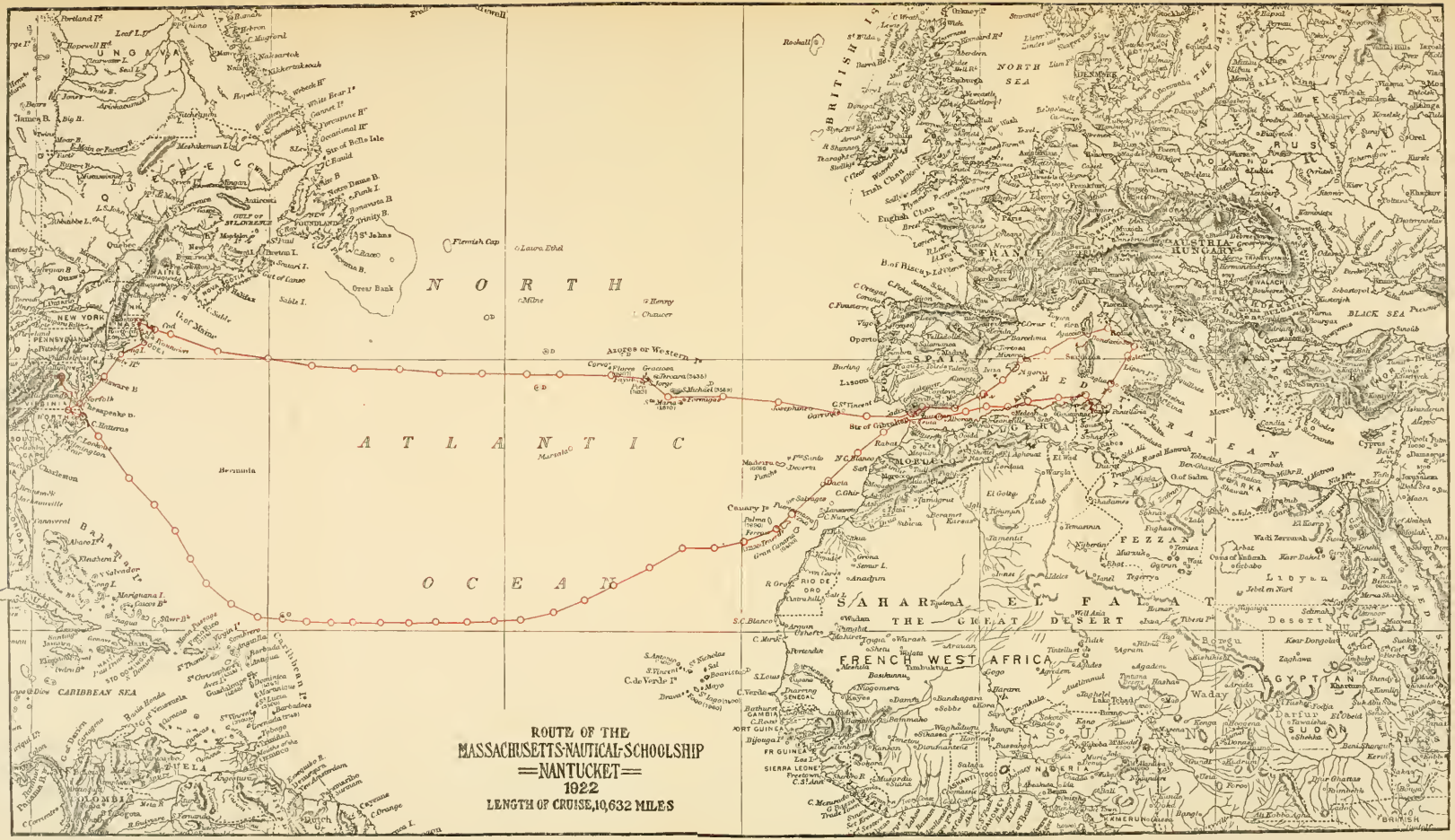
Nearly the whole time the ship was in the Mediterranean the weather was clear, and at no time was it uncomfortably warm. The passage from Teneriffe to Norfolk was made under perfect conditions, no hot weather being experienced until a few days before arriving at Norfolk. Aside from the practical professional experience obtained by the cadets, the cruise was a liberal education on account of the pre-eminence of the places of historical interest visited, and this should stimulate in them a strong desire to study history, geography and modern languages.

Over 3,000 miles of the distance was made under sail alone, and at other times sail was used whenever it would be of assistance. On deck, besides the cadets in the watch, there were only three members of the crew, one chief petty officer and two seamen, while under steam the cadets did all the firing in a very satisfactory manner.

The health of all on board was excellent throughout the summer.

Coal Consumption.

	Tons.
On hand May 6 and received to September 19	783
Expended	648
Remaining	135
Itemized account of coal expended:	
Moving ship and banked fires	383
Dynamos and auxiliaries	214
Distilling water	35
Galley	16
Total	648


ROUTE OF THE
MASSACHUSETTS NAUTICAL SCHOOLSHIP
NANTUCKET
1922
LENGTH OF CRUISE, 10,632 MILES
NORTH
ATLANTIC
OCEAN
NORTH SEA
BLACK SEA
SAHARA
THE GREAT DESERT
FRENCH WEST AFRICA
CARIBBEAN SEA
Azores or Western Is.
Sta of Gibraltar
NEW YORK
Bermuda

Itinerary of the "Nantucket," Cruise of 1922.

Ports.	Distance (Miles).	Left.	Arrived.
Boston-Marblehead	21	May 6	May 6
Marblehead-Boston	21	May 6	May 6
Boston-Terceira, Azores	2,047	May 11	May 23
Terceira-Ponta Delgada, Azores	92	May 24	May 25
Ponta-Delgada-Gibraltar	1,021	May 27	June 1
Gibraltar-Malaga, Spain	61	June 6	June 6
Malaga-Port Mahon, Minorca	484	June 10	June 13
Port Mahon-Civita-Vecchia, Italy	376	June 15	June 17
Civita-Vecchia-Naples, Italy	152	June 23	June 24
Naples-Tunis, Morocco	315	June 30	July 2
Tunis-Algiers, Algieria	394	July 5	July 7
Algiers-Gibraltar	425	July 11	July 14
Gibraltar-Santa Cruz, Teneriffe	725	July 19	July 23
Santa Cruz-Norfolk, Va.	3,637	July 26	Aug. 22
Norfolk-Washington, D.C.	182	Aug. 26	Aug. 27
Washington-Norfolk	183	Sept. 5	Sept. 7
Norfolk-Nantucket	423	Sept. 10	Sept. 12
Nantucket-Boston	112	Sept. 17	Sept. 17
Boston-Boston	8	Sept. 19	Sept. 19
	10,679		

Officers and Instructors.

The following are the officers and instructors now connected with the school: —

Superintendent and commanding officer, Capt. Armistead Rust, U. S. N., retired.

Executive officer, Commander Howard G. Copeland, U. S. N. R. F. (graduate M. N. S.).

Navigator, John W. Thompson (graduate M. N. S.).

Watch officer, Norman E. Merrill (graduate M. N. S.).

Watch officer, Chief Boatswain Timothy Sullivan, U. S. N., retired.

Chief engineer, Lieut. Ervin L. Kelley, U. S. N. R. F. (graduate M. N. S.).

Assistant engineer, Calvin W. Simonds (graduate M. N. S.).

Instructor in mathematics, George W. Towle.

Medical officer, W. G. Nelson, A. A. Surgeon, United States Public Health Service.

Paymaster and captain's clerk, Charles Parker.

Appointments.

Name.	Title.	Date.
Clarence E. Perkins	Commissioner	July 1, 1922
Charles Parker	Paymaster	Dec. 6, 1921
Dr. Max H. Hoffman	Surgeon	Apr. 20, 1922
Dr. W. G. Nelson	Surgeon	Oct. 17, 1922
George W. Towle	Instructor in mathematics	Oct. 23, 1922

Resignations.

Name.	Title.	Date.
Thomas A. O'Connell	Paymaster	Dec. 8, 1921
Dr. James J. Putnam	Surgeon	Apr. 19, 1922
Dr. Max H. Hoffman	Surgeon	Sept. 25, 1922
Arthur B. Frizell, A.M.	Instructor in mathematics	Mar. 25, 1922

Cadets admitted, graduated and honorably discharged, from 1893 to 1922, inclusive.

	Admitted.	Graduated.			Honorably discharged.	Withdrawn, dismissed, dropped.	Number connected with the School.
		Seamanship Class.	Engineer Class.	Totals.			
1893	141	–	–	–	29	24	138
1894	63	–	–	–	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	133
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	7	186
1921	70	35	17	52	9	7	184
1922	74	29	21	50	19	8	188
Totals	2,159	543	512	1,055	596	393	–

Cadet Officers of the Massachusetts Nautical School.

Summer Term, 1922.

Scranton H. Redfield, *Cadet Master.*

Navigation.

Eliot Olsen . . . . . *Cadet First Officer.*
Edward C. Beatson . . . . . *Cadet Second Officer.*
Robert M. Pierce . . . . . *Cadet Third Officer.*

Engineering.

Louis F. Harlow . . . . . *Cadet Engineer.*
Edward A. Bouvier . . . . . *Cadet First Assistant Engineer.*
Ernest G. Sibley . . . . . *Cadet Second Assistant Engineer.*

Petty Officers.

(*Deck.*)

Paul R. Jones.
Florence R. Fletcher.
E. Stanley Baker.
Emerson J. Cudios.
Wilbur G. Farrell.
Raymond B. Newell.
Roy W. Chamberlain.
John B. Crosby.

(*Engineering.*)

Nathan S. Crowell.

Winter Term, 1922–23.

Florence N. Fletcher, *Cadet Master.*

Navigation.

Raymond B. Newell . . . . . *Cadet First Officer.*
Paul R. Jones . . . . . *Cadet Second Officer.*
Gordon W. Knapp . . . . . *Cadet Third Officer.*

Engineering.

Edmund M. Hourigan . . . . . *Cadet Engineer.*
Elmer H. Bridge . . . . . *Cadet First Assistant Engineer.*
John A. Hey . . . . . *Cadet Second Assistant Engineer.*

Petty Officers.

(*Deck.*)

Roy W. Chamberlain.
William T. Corfield.
Gerald P. Coleman.
George R. Hickey.
George J. Andrews.
Julius F. Jacot.
Charles E. Brown.
Leman N. Wright.

(*Engineering.*)

Lorenzo H. Smith.

Membership of the School.

Graduating Class, March, 1922.

[* Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.]

Seamanship Division.

* **Mayo, Kenneth C.**	Provincetown.
Beaumont, Herbert A.	Dorchester.
Burgess, Carroll P.	Bournedale.
Mahoney, William C.	Somerville.
Harlow, Frederick L.	Cotuit.
Johnson, Everett F.	Gloucester.
Hancock, Vincent F. J.	Fall River.
Murray, Ernest D.	Everett.
Brady, Arthur O.	Rockland.
MacIntyre, Angus S.	Provincetown.
Worth, George W.	Cambridge.
Sillars, M. Osgood	Danvers.
Mulvey, John F.	Roslindale.

Engineering Division.

* **Bosler, John D.**	Holyoke.
Gordon, Roy Y.	Somerville.
Mahoney, Frederic W.	Somerville.
Geddes, W. Ernest	Attleboro.
Brooks, Dexter M.	Wakefield.
Walker, George M.	Lowell.
Gross, Gerald W.	Marstons Mills.
Moore, Harvey W.	West Somerville.
Barry, William J.	Lawrence.
Lewis, Gilbert E.	Lawrence.

Graduating Class, September, 1922.

Seamanship Division.

* **Olsen, Eliot**	East Milton.
* **Redfield, Scranton H.**	Lynn.
* **Beatson, Edward C.**	Ludlow.
Farrell, Webster G.	Boston.
* **Pierce, Robert M.**	Rockport.
Baker, E. Stanley	Manchester.
Lawrence, Harvey S.	Groton.
* **Cudios, Emerson J.**	Provincetown.
Crosby, John B.	Eastham.
Pierce, Hosea T.	Rockport.
Howard, John P.	Waltham.

Bell, Algernon H.	Swansea.
Johnson, Otto W.	Dorchester.
White, Norman B.	Malden.
Rhodes, Everett A.	Worcester.
Judd, Eric V. T.	Lowell.

Engineering Division.

* **Harlow, Louis F.**	North Easton.
* **Bouvier, Edward A.**	Marlborough.
* **Sibley, Ernest G.**	Norton.
* **Crowell, Nathan S.**	East Dennis.
Johnson, Lloyd M.	Allston.
Carreiro, George F.	Fall River.
Drummond, William J.	Lawrence.
Kaplan, Jacob	Boston.
Dorgan, Lawrence E.	Brockton.
Norcross, Richard W.	Needham.
Jung, George J.	Medford.

Class to Graduate March, 1923.

Seamanship Division.

* **Jones, Paul R.**	Gloucester.
* **Newell, Raymond B.**	Revere.
* **Fletcher, Florence N.**	Marlborough.
Coleman, Gerald P.	Melrose.
Corfield, William T.	Roxbury.
Hickey, George R.	Rockland.
Knapp, Gordon W.	Lowell.
Jacot, Julius F.	Beachmont.
Andrews, George J.	Winthrop.
Whelan, Maurice L.	Whitman.
Williams, Francis T.	Hyde Park.

Engineering Division.

* **Hourigan, Edmund M.**	Dorchester.
* **Lewis, Percy J.**	Lynn.
* **Bridge, Elmer H.**	Fall River.
* **Smith, Lorenzo H.**	North Easton.
Fila, Michael S.	Bradford.
Dodd, Frederick N.	East Lynn.
Heffron, Augustin P.	Marlborough.
Murphy, Walter J.	Roxbury.
Hey, John A.	Lawrence.
Cole, Arthur F.	West Lynn.
Bathelt, Walter C.	Holyoke.
Fairbrother, Thomas F.	North Billerica.

Class to Graduate September, 1923.

Seamanship Division.

* **Brown, Charles E.**	Eastham.
* **Chamberlain, Roy W.**	East Lynn.
Abbott, Stephen A.	Stoneham.
Mayo, Raymond W.	Eastham.
Neville, William	Pottersville.
Baker, Duncan S.	Manchester.
Kelleher, Cornelius T.	Worcester.
McGourthy, Edward P.	Roxbury.
Pendleton, Richard E.	Bryantville.
Wade, John E.	Swampscott.
Handran, John E.	Rockport.
Phillips, Dana V.	Newton Center.
Keane, James F.	Worcester.
Pierce, I. Edward	Lanesborough.
Wright, Leman N.	Rockland.
Cates, Edson B.	Roslindale.
Mills, J. Kenerick	South Natick.
Smith, Rudolf A.	Wellesley Hills.

Engineering Division.

Lowey, Aulden S.	Woods Hole.
Barnicle, Francis J.	Fitchburg.
Carleton, George F.	Swampscott.
Humphries, Alfred	Salem.
Calhoun, James A.	West Somerville.
Cassius, Claude F.	Lowell.
Cary, Franklin A.	Newton Highlands.
Morgan, George E.	Medford.

Class to Graduate March, 1924.

Masse, Joseph H.	Everett.
Deering, Keith H.	Springfield.
Ellis, Edward B.	Walpole.
Gardner, Charles D.	Gloucester.
Huard, Joseph E.	Fall River.
Malen, John W.	Gloucester.
Langille, Ralph L.	Boston.
Martin, Edmond P.	Lynn.
Capen, Ellery H.	Fall River.
Jernberg, Ralph E.	Worcester.
Harrington, Webster F., Jr.	South Lincoln.

Murphy, Daniel E.	Dorchester.
Jacobs, William H.	Gloucester.
Allen, Aubrey C.	Marlborough.
Joseph, John M.	Dorchester.
MacDonald, James A.	Tewksbury.
O'Brien, James W.	Springfield.
Gardner, Carlton P.	Lowell.
Libby, Leo J.	Marlborough.
Hull, Raymond M.	Leominster.
Baker, William N.	Quincy.
Russell, Sydney L.	Worcester.
Walsh, Arthur J.	Watertown.
Kyle, William H.	Marlborough.
Raynes, Albion A.	Melrose.
Barrett, Roderick L.	Prides Crossing.
Anderson, Paul W.	North Easton.
Kyle, Harold F.	Marlborough.
Laverty, John F.	Quincy.
Gould, Horton D.	Amesbury.
Thureson, Nils E.	South Boston.
Woodbury, Melzar A.	Marion.

Class to Graduate September, 1924.

(Alphabetically arranged.)

Baker, Roger A.	Manchester.
Blackledge, Sydney	Pottersville.
Carlson, Alfred G.	Falmouth.
Carr, Burton F.	Billerica.
Choquette, George A.	Lowell.
Crossman, Malcolm E.	Taunton.
Croteau, Lawrence W.	Manchester.
Downing, Earle B.	East Lynn.
Doyle, John F.	South Hadley.
Evans, Edwin S.	East Walpole.
Evans, E. Emerson	Framingham.
Everette, Frederick E.	Revere.
Gale, Robert S.	Watertown.
Gifford, Harry C., Jr.	North Easton.
Gilchrist, Norman S.	Chatham.
Henrickson, Albert R.	Sharon.
Hickey, Thomas F.	Fall River.
MacMaster, Douglas	Cambridge.
Marsh, Charles W.	Cambridge.
McGourthy, David G.	Roxbury.
Moran, William J.	Millis.

Peters, Edgar H.	North Adams.
Roberts, Charles L.	Shelburne Falls.
Seed, Daniel C.	Adams.
Simmons, Foster R.	Worcester.
Slattery, James E.	Westborough.
Walton, Harry L., Jr.	Cambridge.
Wardrop, Andrew R.	Gloucester.
Welch, Thomas E.	Salem.

Register of Graduates.

Officers in the Merchant Marine.

[* Enrolled in the United States Naval Reserve during the World War.]

Year.	Name.	Residence.	Position.	Vessel or Service.
1898	Jos. E. Sheedy	Reading	Vice-president	United States Shipping Board, Washington, D. C.
1899	George F. Waite	Winthrop	District agent	United States Shipping Board, Boston.
1901	*John J. Coholan	So. Boston	Marine superintendent.	Galveston, Tex.
1903	*Robert B. Powers	Brockton	Marine superintendent.	United States Shipping Board, Philadelphia, Pa.
1911	Norris T. Ela	Douglas	Marine superintendent.	Atlantic, Gulf & Pacific Corp., Baltimore, Md.
1903	Nicholas J. Kane	Whitman	Assistant marine superintendent.	United American Lines.
1919	Richard R. McNulty	Gloucester	Assistant marine superintendent.	Mallory Transport Lines.
1899	Edward G. Smith	Boston	Port captain	Freeport Sulphur Company.
1901	Theodore H. Bicknell	Melrose	Port captain	Union Sulphur Company.
1905	*Walter L. Smith	Ashburnham	Port captain	United States Shipping Board, Baltimore, Md.
1894	James E. Reardon	Roxbury	Captain	"Lake Frugality."
1894	Henry G. Carpenter	Roxbury	Captain	"W. L. Steed."
1894	Albert L. Warner	Wollaston	Captain	"Lake Gardner."
1895	Walter J. Healey	Worcester	Captain	"E. T. Bedford."
1895	Geo. L. P. Covell	Roxbury	Captain	"Henry S. Groves."
1896	*Wm. N. P. Baker	Brooklyn	Captain	"Argosy."
1896	Alvin W. Haynes	Somerville	Captain	"Colon."
1896	Henry R. Bodge	Wollaston	Captain	– –
1896	Geo. R. Lauriat	Ft. Moultrie	Captain	"Gen. Brannan."
1897	H. W. G. Atkins	Reading	Captain	– –
1897	*Frederick W. Jones	Winchester	Captain	"West Zeda."
1897	Mina Dailey	Rockport	Captain	"Harwood."
1897	Chas. W. Clift	Whitman	Captain	"Gen. J. M. Schofield."
1898	*Louis E. Congdon	Boston	Captain	"Swift Eagle."
1898	*Carl E. A. Anderson	Brooklyn	Captain	"Arizonan."
1899	*Walter S. Lynch	Chelsea	Captain	– –
1899	Richard T. Blackford	Marblehead	Captain	– –
1900	Joseph E. Gately	Marlborough	Captain	"Balsam."
1900	William B. Knight	Bellingham	Captain	"Catherine D."
1900	Alfred M. Cummings	Worcester	Captain	"Lancaster."
1901	Charles D. Harrington	Boston	Captain	"H. M. Flagler."
1901	Robert W. Tucker	Kendal Green	Captain	"Panaman."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1902	*A. Russell Cushing	Allston	Captain	"Hinckley."
1902	*Edwin J. Madden	Clifton, N. J.	Captain	"Blue Triangle."
1902	*Arthur P. Jensen	Provincetown	Captain	– –
1903	Mark Woodbury	San Francisco	Captain	"Magunkook."
1903	Benj. O'Connell	Peabody	Captain	"Wheeling Mold."
1903	*Harry M. Bostwick,	Northbridge	Captain	– –
1904	*Andrew J. Iverson	Bristol	Captain	"Tivives."
1904	*Edward C. Roberts	No. Beverly	Captain	"Ulysses."
1905	*Frederick S. Walker	Everett	Captain	"Everett."
1905	*Harold H. Gridley	Dorchester	Captain	"Caddo."
1905	*James A. Crocker	Nahant	Captain	"Freda."
1906	*Wm. H. Lee	Malden	Captain	"Neponset."
1906	*Geo. C. Bosson	Reading	Captain	"James S. Whitney."
1907	*Elmer B. Small	No. Truro	Captain	"Panuco."
1907	*William M. Gifford	Woods Hole	Captain	"Belleflower."
1907	Frazier L. Sears	E. Dennis	Captain	"Bramell Point."
1908	*Eugene P. Shevlin	E. Boston	Captain	– –
1908	Chester B. Mellen	Quincy	Captain	– –
1908	*Edward S. Ells, Jr.	Haverhill	Captain	– –
1909	Harold C. Cooper	Worcester	Captain	"Polarine."
1909	*Carroll E. Higgins	Somerville	Captain	"Mount Carroll."
1909	*Eric E. Wrinquist	Mattapan	Captain	– –
1909	William A. Sillars	Danvers	Captain	"Niobe."
1909	*Robert S. Sparrow	Eastham	Captain	"Tuckanuck."
1910	*Chester E. Morris	Brooklyn	Captain	"Aledo."
1911	Frederic J. Shaw	Winthrop	Captain	– –
1911	*Charles F. Fornason	Marblehead	Captain	– –
1911	*Wesley F. Besse	Somerville	Captain	"De Soto."
1911	*Harold S. Dexter	Mattapoisett	Captain	– –
1911	*Henry O. K. Hanson	Neponset	Captain	– –
1911	*Raymond C. Vose	Norfolk	Captain	"Dauperata."
1911	*Eugene W. Miller	E. Saugus	Captain	"Chinampa."
1912	*Harold Ertel	Longmeadow	Captain	– –
1912	*Clarence L. Howard	Wellesley	Captain	– –
1912	Russell A. Eastman	Mattapoisett	Captain	"Rotarian."
1913	*Everett O. Swinson	E. Gloucester	Captain	"Gen. Goethals."
1913	*Borden A. Tuell	New Bedford	Captain	"Weekiki."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1913	*Ralph W. Dearborn	Mansfield	Captain	"Alloway."
1913	*John A. Maddock	Newburyport	Captain	– –
1913	Wilfred H. Senior	Dorchester	Captain	– –
1914	John L. Kirchner	Hinsdale	Captain	New York, New Haven & Hartford Railroad tugs.
1914	Nelson T. Nutter	Newburyport	Captain	"Chamblee."
1914	Samuel A. Gates	Malden	Captain	– –
1914	Samuel J. Lee	Roxbury	Captain	"West Loquassuck."
1915	George T. Horan	Dorchester	Captain	"Lake Flushing."
1915	Chas. H. Hurley, Jr.	Gardner	Captain	"Mary Manson Greener."
1915	Chas. N. Bamforth	So. Lincoln	Captain	"Nevadan."
1915	*Leland M. Marshall	Allston	Captain	"Advance."
1915	Harold F. Craven	Lawrence	Captain	"Trinidadian."
1915	*Chas. E. Griffith	Cambridge	Captain	– –
1916	*William E. Lord	Springfield	Captain	"Lake Tippah."
1916	John A. Rylander	Springfield	Captain	"Steel Trader."
1916	Clayton W. Collins	Waquoit	Captain	"Baytown."
1917	Alan R. Barton	Winthrop	Captain	– –
1917	*Herbert W. Susmann	Dorchester	Captain	– –
1895	Harold W. Davis	Somerville	First officer	"Cottonwood."
1897	*Herbert P. Smith	Nantucket	First officer	– –
1898	*Harlowe Johnson	Mattapoisett	First officer	– –
1898	*Charles H. Kilmer	Somerville	First officer	"West Zeda."
1898	*James H. Willey	Santa Cruz	First officer	"West Ira."
1900	Clayton G. Parsons	Salem	First officer	"West Cape."
1900	Winthrop R. Cutts	Stoneham	First officer	– –
1900	*E. Newton Parker	Greenfield	First officer	"Brookline."
1900	Edward Smith	Melrose	First officer	"Hartford."
1902	*Fred C. Seibert	Greenfield	First officer	"Mount Carroll."
1906	*Lewis B. Butler	Worcester	First officer	"Lake Fear."
1907	Philip B. Marcy	Brookline	First officer	"Ameland."
1908	*Ernest F. Robinson	Greenville	First officer	"Reliance."
1910	*Charles H. Tumey	Southbridge	First officer	– –
1911	*Wm. M. Gorham	W. Somerville	First officer	"Lurline."
1911	*Charles C. Plummer	Cambridge	First officer	"Steadfast."
1912	*Herbert A. Burns	New Bedford	First officer	– –
1912	Clarence L. Howard	Wellesley	First officer	– –
1912	*Harold L. Winslow	Canton	First officer	– –

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1912	*Ralph E. Merithew	Haverhill	First officer	"Saccarappa."
1912	*Kenneth E. Cahoon	W. Tisbury	First officer	"Aurora."
1912	*William H. O'Donoghue	Roxbury	First officer	– –
1912	*Joseph M. Daniel	Osterville	First officer	– –
1912	*Ellenwood Folger	Siasconset	First officer	"Benj. Brewster."
1912	*Albert H. Acorn, Jr.	Malden	First officer	"Corsica."
1913	*Philip J. Fanning	Baltimore	First officer	"Otho."
1913	James A. MacCabe	Osterville	First officer	– –
1913	*Philip H. Waldron	E. Milton	First officer	"Coahoma County."
1913	*Arthur G. Burt	Whitman	First officer	"Pocahontas."
1913	*Frederick L. Howland	So. Dartmouth	First officer	"Western Ally."
1913	*Waldon A. McIntire	E. Gloucester	First officer	"Martha Washington."
1913	*Frank H. Nelson	Fall River	First officer	"Florence Luckenbach."
1914	Edward F. Murphy	Fall River	First officer	"Lewis Luckenbach."
1914	*Geoffrey C. O'Donoghue	Roxbury	First officer	"Cuba."
1914	*Gerard R. Crosby	Orleans	First officer	"Minnesotan."
1914	James A. Stowell	Walpole	First officer	"Yucatan."
1914	*F. Palmer Harrington	Malden	First officer	"Putnam."
1915	*Ralph S. Moore	New York	First officer	"Steel Mariner."
1915	*Arthur A. Hovgaard	Brookline	First officer	"West Raritans."
1915	Ronald B. Ford	Lawrence	First officer	"Yukon."
1915	Albert V. Jones	Fall River	First officer	"Pinthis."
1915	*William C. Davenport	New Bedford	First officer	– –
1915	Earle D. Hammond	E. Mattapoisett	First officer	– –
1915	Edward R. Rhodes	Lowell	First officer	"W. S. Miller."
1915	*Herman S. Mayo	Provincetown	First officer	"Fairmont."
1916	*Peter J. Jakmauh	So. Boston	First officer	"West Inskip."
1916	*Richard H. Dunphe	Brockton	First officer	"Victorious."
1916	*J. Prescott Mahoney	W. Wareham	First officer	"Bristol."
1916	*Paul H. Browne	Roslindale	First officer	"Satartia."
1916	Arthur J. Kenney	Brookline	First officer	"Circinus."
1916	Harold R. Congdon	Somerville	First officer	"Amolco."
1916	*Thomas B. Lufkin	Gloucester	First officer	"Katahdin."
1916	Charles A. Martell	Somerville	First officer	"Steel Engineer."
1916	*Randall F. Elder	Brighton	First officer	"Cabeza."
1916	*Edwin T. Fletcher	Springfield	First officer	"Wheaton."
1917	Alton E. Borden	Fall River	First officer	– –

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1917	William W. Storey	Stoneham	First officer	"Turialba."
1917	Stanley F. Roberts	Springfield	First officer	– –
1917	*Russell W. Thresher	Southbridge	First officer	"Bantu."
1917	Franklin B. Atwood	Nantucket	First officer	"Delco."
1917	David M. McLaren	Dedham	First officer	"Eastern Planet."
1917	A. Henry Rowe	Roslindale	First officer	"Kisnop."
1917	Ivan Freeman	E. Orleans	First officer	"Ossaban."
1917	Luther C. Kingsbury	Wellesley	First officer	"Riverside Bridge."
1918	Hartley Hoffses	Quincy	First officer	– –
1918	Alden L. Strout	Boston	First officer	"Jonancy."
1918	Max Distelman	Newburyport	First officer	"Lackawanna Bridge."
1918	Wm. S. Reagh	Wakefield	First officer	"Plymouth."
1918	*William H. Fitzgerald	Revere	First officer	"Chester Valley."
1918	G. Minard Cunningham	Lawrence	First officer	– –
1918	Jacob Popkin	Malden	First officer	"Yuka."
1918	Raphael W. Hill	Provincetown	First officer	"Lake Elmhurst."
1918	Leonard C. Walen	Gloucester	First officer	"Osawatomie."
1918	James E. Fraser	Boston	First officer	"Esparta."
1919	Harry C. Lord	Springfield	First officer	– –
1919	Sherman W. Reed	Dorchester	First officer	"Levisa."
1919	Charles F. Bossom	Arlington	First officer	"Macerata."
1894	Alfred J. O'Leary	Worcester	Second officer	"Adacia."
1902	*George Castle	Lynn	Second officer	"Lake Fanning."
1904	Leslie F. Holmes	Whitman	Second officer	– –
1904	*Chas. H. Stoddard	Brookline	Second officer	– –
1906	John Ruyter	Rochester	Second officer	"Lake Ellio."
1907	Herbert Garity	Boston	Second officer	"Dorothy."
1910	Franklin K. Tyler	Beachmont	Second officer	"Saramacca."
1911	*Angelo A. Aicardi	So. Boston	Second officer	– –
1913	Fred'k A. Stainforth	Winthrop	Second officer	"Panaman."
1913	John W. Crocker	Nahant	Second officer	"Western Spirit."
1913	Alden L. Hodges	Boston	Second officer	"Lake Linden."
1914	*Joseph L. Turner	Amherst	Second officer	– –
1914	Ten Eyck H. Reed	So. Framingham	Second officer	"West Loquassuck."
1914	*William H. Fogarty	Dorchester	Second officer	"Afoundria."
1914	Laurence L. Horton	W. Haven	Second officer	"Prince Frederick Henry."
1914	David H. Swinson	E. Gloucester	Second officer	"Gen. W. C. Gorgas."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1915	*Russell C. Damon	Hingham	Second officer	"Lake Ellsbury."
1915	*Curtis C. Fales	Westborough	Second officer	"Santa Clara."
1915	*Chas. P. Jacobson	Everett	Second officer	"Oskawa."
1915	Sidney F. Nichols	Worcester	Second officer	"Malden."
1915	Russell L. Saunders	Allston	Second officer	– –
1916	*Frank M. Perrin	Worcester	Second officer	– –
1916	*John T. Crowell, Jr.	Gloucester	Second officer	"Blanche Pendleton."
1916	*Harold S. Ireland	Somerville	Second officer	"Eclipse."
1916	Clifford E. Stanley	Salem	Second officer	United States Shipping Board.
1916	Fred E. Wilcox	Indian Orchard	Second officer	– –
1917	*Percie A. Crosby	Everett	Second officer	"Chester Valley."
1917	Sydney L. MacLaughlin	Wollaston	Second officer	"Reliance."
1917	*Earl S. Francis	Athol	Second officer	– –
1917	Robt. H. Sheridan	Stoneham	Second officer	"S. B. Harkness."
1917	*Arthur S. Phelan	Lynn	Second officer	"Steel Trader."
1917	*William M. Preston	Beverly	Second officer	– –
1917	Charles F. Huffman	W. Somerville	Second officer	"West Hambrie."
1917	*Frank M. Moore	Forest Hills	Second officer	"Malden."
1917	*Harry Levine	Cambridge	Second officer	– –
1917	*Bradford S. Wilson	Brookline	Second officer	– –
1917	Ernest V. Wyatt	Boston	Second officer	"Mahommet."
1917	Donald MacWhinnie	New Bedford	Second officer	"Sinsinawa."
1918	Robert P. Anderson	Melrose	Second officer	– –
1918	James C. McKenzie	Dorchester	Second officer	"Ahala."
1918	Ira D. Dean	So. Natick	Second officer	"Cathcoon."
1918	Arthur B. Gibbs	Nantucket	Second officer	"Houston."
1918	Harold S. Damon	Plymouth	Second officer	"W. C. Teagle."
1918	Almer T. Hovland	Newton Lower Falls.	Second officer	"Lake Gakona."
1918	Geo. R. Stockbridge	Wellesley	Second officer	"Anacorter."
1918	Wilbur W. Woods	Provincetown	Second officer	"Yaka."
1918	Raymond E. Saunders	W. Somerville	Second officer	– –
1918	James R. Moore	Lexington	Second officer	"Lake Sunapee."
1918	James J. Crowley	No. Abington	Second officer	– –
1918	James H. Lowry	Canton	Second officer	"Lake Ellesmere."
1918	Gerald K. Sanborn	Lawrence	Second officer	– –
1919	Llewellyn Roberts	Arlington	Second officer	"Andrew F. Luckenbach."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1919	Richard F. Nickerson	So. Duxbury	Second officer	"Henry Groves."
1919	Edmond F. Bemis	E. Lynn	Second officer	"Worcester."
1919	Roy D. Hall	Dennis	Second officer	"Contoocook."
1919	Paul E. Purdy	Everett	Second officer	"Oronoke."
1919	Wm. B. Studley	Fairhaven	Second officer	"Steel Exporter."
1919	Jack A. Fraser	Brighton	Second officer	"Seaconnet."
1919	Harry E. Hopkins	No. Eastham	Second officer	"William Green."
1919	Jos. W. Gosselin	Nahant	Second officer	"Steelmaker."
1919	*Gordon A. Littlefield	Cambridge	Second officer	"Argon."
1919	Walter J. Cronin	Somerville	Second officer	– –
1919	Paul Stone	Pigeon Cove	Second officer	"Western Glen."
1919	Walter W. Jenness	Malden	Second officer	"Quinneseco."
1919	Wm. H. Moulton	Bedford	Second officer	"F. J. Luckenbach."
1919	Charles W. Torrey	Rockland	Second officer	"Ohioan."
1919	Charles E. Gilman	Somerville	Second officer	"Elkwater."
1919	John J. Mahoney	Revere	Second officer	"West Hosokie."
1920	Wm. S. Tyrrell	Cambridge	Second officer	"De Sota."
1920	*Francis X. Landrey	Roslindale	Second officer	"Western Star."
1920	Erwin F. Colburn	Somerville	Second officer	"San Jose."
1905	*Laurence G. Kelley	Taunton	Third officer	– –
1912	Francis J. McGowan	Somerville	Third officer	"Lake Grampus."
1913	*Oliver P. Shattuck	West Acton	Third officer	"Reliance."
1916	*Albert Bianchi	Worcester	Third officer	– –
1916	*Howard U. Chase	Nantucket	Third officer	– –
1916	*Byron H. Paine	New Bedford	Third officer	"S. B. Hunt."
1917	*Richard H. Hopkins	W. Somerville	Third officer	"Santore."
1918	*Edgar G. Glines	Beverly	Third officer	"Roanoke."
1918	Raymond P. Abbott	Newburyport	Third officer	"Sinsinawa."
1919	Frederick T. DeLeskey	E. Boston	Third officer	"Corsica."
1919	John W. Donahoe	Dorchester	Third officer	"Lake Larrabee."
1919	*Harold B. Wilkinson	Lynn	Third officer	"Lake Galando."
1919	Francis J. Harrington	Revere	Third officer	"Faith."
1919	Harold T. Longmore	Stoneham	Third officer	"Munamar."
1919	Harry C. Howe	Stoneham	Third officer	– –
1919	*Nelson E. Gardiner	Fitchburg	Third officer	"West Ceba."
1919	Alfred A. Needham	Manchester	Third officer	"Ardena."
1919	Geo. A. Henderson	Brighton	Third officer	– –

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1919	Robert S. O'Brion	Malden	Third officer	"Carlton."
1919	Ernest B. Waters	Nahant	Third officer	"Corsicana."
1920	Daniel J. Coughlin	Lowell	Third officer	– –
1920	*Fred M. Full, Jr.	Rockport	Third officer	– –
1920	*Clarence A. Bartlett	Lowell	Third officer	"Western Comit."
1920	*Noble M. Hartley	Winthrop	Third officer	"Lake Fagundas."
1920	*Thomas F. Coughlin	Roslindale	Third officer	– –
1920	*Laurence R. Jacques	Springfield	Third officer	"Ossa."
1920	*Fred C. B. Steinmetz	Springfield	Third officer	"Winona."
1920	*Roger W. Osborne	E. Lynn	Third officer	"Gulfland."
1920	Theodore Collins	Milton	Third officer	"Springfield."
1920	*Joseph G. Dean	Springfield	Third officer	"Astmahco."
1920	*Chas. A. Freeman, Jr.	Taunton	Third officer	"Lake Foch."
1920	Roger W. Clarke	Auburndale	Third officer	"Minnesota."
1920	*Oswald J. Griffin	Fall River	Third officer	"Astoria."
1920	*Richard B. Taylor	W. Somerville	Third officer	"Romulus."
1920	*Ralph E. Tilton	Fitchburg	Third officer	"Crawl Keys."
1920	*Jos. K. Whittemore	W. Roxbury	Third officer	"Lake Ferrona."
1920	*J. Francis Devlin	Salem	Third officer	"America."
1920	John F. Hannan	Mattapan	Third officer	"Egremont."
1920	Geo. P. Lord	Salem	Third officer	"Saccarappa."
1920	Alex. M. S. Paddock	Cambridge	Third officer	"Morristown."
1920	Raymond A. Bowen	Gloucester	Third officer	"Red Mountain."
1921	Roger J. O'Sullivan	W. Medford	Third officer	"Eastern Blade."
1921	Theodore W. Marvin	Roxbury	Third officer	"Montgomery City."
1921	Lawrence T. Sullivan	E. Boston	Third officer	"M. T. Brush."
1922	John F. Mulvey	Roslindale	Third officer	"Millinocket."
1922	Carroll P. Burgess	Bournedale	Third officer	"Ormandale."
1922	George Worth	Cambridge	Third officer	"Virginian."
1900	*Hollis M. Cornwall	Melrose	Superintendent engineer.	Merchants & Miners Transportation Company.
1907	Paul R. Smith	Brooklyn	Superintendent engineer.	Kerr Steamship Company.
1900	Norris R. Sibley	Worcester	Manager, New York District.	London Steam Turbine Company.
1905	Chas. F. Tarr	Taunton	Port engineer	United States Shipping Board, Philadelphia, Pa.
1895	Michael D. Sullivan	San Francisco	Chief engineer	"Rosencranz."
1896	*James H. B. Meehan	Lowell	Chief engineer	– –
1898	William E. Ballsdon	Neponset	Chief engineer	"Herman Winter."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1898	Wilbur S. Lamont	Leominster	Chief engineer	"West Hargrave."
1898	*Everett S. Ransom	E. Mattapoisett	Chief engineer	– –
1898	Charles E. Rowe	Lynn	Chief engineer	– –
1898	*John C. Ganser	Jersey City	Chief engineer	"Bird City."
1900	*Charles E. Lowe	Roxbury	Chief engineer	"Eastern Trader."
1900	Elmer P. Butterworth	Port Arthur	Chief engineer	"Gulfking."
1900	William Glover	Wilmington	Chief engineer	"West Celina."
1901	*Eugene I. K. Murphy	New York	Chief engineer	– –
1901	*Robert A. Patterson	Cambridge	Chief engineer	– –
1902	Daniel F. Butler	Waltham	Chief engineer	"Gloria."
1903	*James S. McGarry	New York	Chief engineer	"El Alba."
1903	*Edmund E. Powers	Cambridge	Chief engineer	"Texarkana."
1904	Charles W. Bumpus	Wareham	Chief engineer	"City of Gloucester."
1904	*Cecil L. McIntyre	Ashmont	Chief engineer	"Olen."
1905	*Walter C. Lockhart	Washington	Chief engineer	– –
1905	*Fred G. Carlton	Maynard	Chief engineer	"H. D. Morse."
1906	*Augustus C. Caldwell	Dorchester	Chief engineer	– –
1906	Victor M. Foster	Revere	Chief engineer	"Tuckahoe."
1906	Bradford N. A. Gladding	Newport	Chief engineer	– –
1906	*Arthur G. Burbank	Carver	Chief engineer	– –
1907	*George H. Stickney	Watertown	Chief engineer	– –
1907	*Samuel P. Osgood	Middleborough	Chief engineer	"Bessemer City."
1907	*Archie E. Bragg	New Bedford	Chief engineer	– –
1908	*Thomas B. Pellett	Worcester	Chief engineer	– –
1909	*Everett B. Ward	New York	Chief engineer	– –
1909	William A. Sullivan	E. Boston	Chief engineer	Mine sweeper.
1909	*Leo A. Keating	Natick	Chief engineer	"F.J.Luckenbach."
1909	Richard K. Henry	Pittsfield	Chief engineer	"Silverbrook."
1909	*Samuel J. Miller	Fall River	Chief engineer	"Lehigh."
1910	George W. Sibley	Worcester	Chief engineer	"Geo. W. Barnes."
1910	R. Wilbur Anderson	Mattapan	Chief engineer	"Passaic Bridge."
1911	*Robert F. Phinney	Mattapan	Chief engineer	"Matinicock."
1911	Harvey M. Thorndike	Cliftondale	Chief engineer	"El Capitan."
1912	William A. Hamilton	Cliftondale	Chief engineer	– –
1912	Richard K. O'Connell	North Easton	Chief engineer	"Nelson."
1912	*John M. Marks	Gloucester	Chief engineer	"Burnwell."
1914	*Arthur C. Goodwin	Somerville	Chief engineer	"Peter H. Crowell."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1915	*Philip J. Durney	Gloucester	Chief engineer	"Gloucester."
1916	*Percy C. Stevens	Avon	Chief engineer	– –
1917	*John D. Noonan	Mansfield	Chief engineer	"Yaklok."
1918	John R. Donlin	Medford	Chief engineer	"Cigarette."
1897	Augustus T. Holmes	Ipswich	First assistant engineer.	"J. M. Guffy."
1898	Frank P. Killion	Honolulu	First assistant engineer.	"Mauna Loa."
1898	Chas. E. Perry	Hyde Park	First assistant engineer.	"Bibbco."
1900	Earle P. Marshall	No. Easton	First assistant engineer.	"Lake Buckeye."
1901	*Ernest E. Sackett	Lynn	First assistant engineer.	"Wampum."
1902	Augustus W. Hart	No. Truro	First assistant engineer.	– –
1904	*Benj. L. Welch	Lynn	First assistant engineer.	"Eastern Chief."
1904	Edward J. Chadbourne	Reading	First assistant engineer.	– –
1904	William Stewart	Charlestown	First assistant engineer.	– –
1905	Thomas W. Chisholm	Washington	First assistant engineer.	– –
1907	*Joseph R. Wier	Saundersville	First assistant engineer.	"Mexican."
1909	*William E. Caddigan	Dorchester	First assistant engineer.	– –
1909	Fritz T. Kebler	Rochdale	First assistant engineer.	"Henry F. Dimock."
1910	Leslie S. Badger	Norfolk, Va.	First assistant engineer.	"Galveston."
1910	Harold C. Grover	Stoneham	First assistant engineer.	"Nobles."
1912	Louis H. Racicot	W. Somerville	First assistant engineer.	"Paul H. Harwood."
1912	Richard J. Cavanaugh	New Bedford	First assistant engineer.	"Aguimex."
1913	Paul S. Rice	Cambridge	First assistant engineer.	"Arlington."
1913	Russell A. McLay	Providence	First assistant engineer.	"Currier."
1914	Leslie T. Severance	Cambridge	First assistant engineer.	"Malden."
1914	Fred H. Brewster	Somerville	First assistant engineer.	– –
1914	James A. Sweeney	E. Boston	First assistant engineer.	– –
1914	Charles P. Tucker	Boston	First assistant engineer.	"Northern Wave."
1915	*Roy C. Hartwell	New York	First assistant engineer.	"Arizonan."
1915	Arthur F. Higgins	Lawrence	First assistant engineer.	"Castlewood."
1915	*Clarence E. Stevens, Jr.	W. Barnstable	First assistant engineer.	– –
1915	*Bernhardt Gerecke	Boston	First assistant engineer.	– –
1915	John F. Houston, Jr.	Long Island	First assistant engineer.	"Naugus."
1915	Arvid H. Winquist	Mattapan	First assistant engineer.	"Lake Forney."
1916	*Henry A. Guba	New Bedford	First assistant engineer.	"Lake Benton."
1916	*John E. Pilkington	Mansfield	First assistant engineer.	"Eastside."
1916	*Paul Gorman	Marlborough	First assistant engineer.	"Chickasaw City."
1916	*Carl E. Berglund	Brockton	First assistant engineer.	"Toledo."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1916	*Alex. J. Phillips	Easton	First assistant engineer.	"Boundbrook."
1917	Arthur Massey	No. Andover	First assistant engineer.	"Conshohocken."
1917	Ernest E. Raby	No. Easton	First assistant engineer.	"Liberty Minquist."
1917	*Arthur D. Murphy	Beverly	First assistant engineer.	– –
1918	Raymond H. Sample	Montello	First assistant engineer.	"Hohira."
1919	Loran H. Sanford	Beverly	First assistant engineer.	"F. Q. Barstow."
1919	Warren L. Bailey, Jr.	Worcester	First assistant engineer.	"Innoko."
1919	Ronald G. Macintyre	Fall River	First assistant engineer.	"Cigarette."
1919	Edward H. Morin	Stoneham	First assistant engineer.	"Eastern King."
1919	Walter E. Carey	Holyoke	First assistant engineer.	"Coushatta."
1896	*Arthur W. Hingham	Lawrence	Second assistant engineer.	– –
1897	Perley W. Kimpton	E. Somerville	Second assistant engineer.	"Shawmut."
1903	Harold A. Thompson	So. Framingham	Second assistant engineer.	– –
1904	*William A. Danforth	Dorchester	Second assistant engineer.	"Zerkle."
1908	Arthur E. Whiton	Greenwood	Second assistant engineer.	"Norwood."
1909	*Frederick H. H. Sylvia	Nantucket	Second assistant engineer.	– –
1910	William Bowen	Boston	Second assistant engineer.	"Bunker Hill."
1911	David J. Fulton	Wollaston	Second assistant engineer.	"Pluto."
1911	George L. Lockhart	Wakefield	Second assistant engineer.	"Orion."
1911	*Alfred Marques	Charlestown	Second assistant engineer.	– –
1911	Samuel D. White	Hyannisport	Second assistant engineer.	"Edward Pierce."
1912	George R. Davison	Springfield	Second assistant engineer.	"Ancon."
1912	Walter L. Brewster	Somerville	Second assistant engineer.	Black Diamond Corporation.
1913	*Charles J. Balboni	New Bedford	Second assistant engineer.	"Bessemer."
1913	Edward J. Fogarty	E. Boston	Second assistant engineer.	"Ockenfels."
1914	Benj. H. Allen, Jr.	Lawrence	Second assistant engineer.	"Leviathan."
1914	*Herbert T. Douglas	W. Medford	Second assistant engineer.	"Lake Ontario."
1914	*C. Harold Peterson	Norwood	Second assistant engineer.	– –
1914	Joseph L. Concannon	So. Boston	Second assistant engineer.	"Brindella."
1915	*John Holmes	Campello	Second assistant engineer.	– –
1915	*Sherman J. Barrett	Lawrence	Second assistant engineer.	– –
1915	Stanislaus P. J. Ciolkosz	Taunton	Second assistant engineer.	"West Jaffrey."
1916	*William W. Thomas	Concord	Second assistant engineer.	– –
1916	*Joseph P. Condrey	Lowell	Second assistant engineer.	"Jimmie Castlewood."
1916	*Harold W. Sanford	Springfield	Second assistant engineer.	– –
1917	*Ernest C. Jensen	Provincetown	Second assistant engineer.	"Lydia."
1917	Herbert A. James	Wellesley Farms	Second assistant engineer.	"Lake Lida."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1917	*John T. Foye	Bridgewater	Second assistant engineer.	– –
1917	Dwight W. Boyd	Randolph	Second assistant engineer.	"Lake Ellendale."
1918	Joseph Freeman	Revere	Second assistant engineer.	"Artegan."
1918	Ralph A. Evers	Somerville	Second assistant engineer.	– –
1918	Elmer J. Kelley	Springfield	Second assistant engineer.	"Lake Grogan."
1918	Stuart R. Colson	Whitman	Second assistant engineer.	"O. T. Waring."
1918	Leroy B. Lowey	Woods Hole	Second assistant engineer.	"Jonancy."
1918	Francis J. Easton	Randolph	Second assistant engineer.	"Branbrinno."
1918	Louis H. Johnson	Andover	Second assistant engineer.	"Lake Sapor."
1919	Thomas F. Cotter	Lawrence	Second assistant engineer.	– –
1919	Guy M. Hanna	Waltham	Second assistant engineer.	"Surinam."
1919	Frank J. Couble	Brockton	Second assistant engineer.	"Pocahontas."
1919	James F. Beatty	Lowell	Second assistant engineer.	"Alamoosa."
1919	Roger N. Walcott	Concord	Second assistant engineer.	"Calamares."
1904	Alfred C. Blunt	Fitchburg	Third assistant engineer.	"Faribault."
1904	Thos. F. Gosnay	Wakefield	Third assistant engineer.	– –
1907	Chas. S. McDonald	Malden	Third assistant engineer.	– –
1911	Walter P. Lynn	Beverly	Third assistant engineer.	"Lake Copley."
1911	Joseph C. Chisholm	No. Billerica	Third assistant engineer.	– –
1911	*Levi E. MacLeod	Gloucester	Third assistant engineer.	– –
1913	*Nils J. Peterson	Brockton	Third assistant engineer.	– –
1914	Wesley H. Burton	Plainville	Third assistant engineer.	– –
1915	*Wilfred C. Herron	Lawrence	Third assistant engineer.	– –
1916	Carleton G. Reed	Lexington	Third assistant engineer.	– –
1916	Richard A. Standley	Beverly	Third assistant engineer.	"Lake Benton."
1917	Philip H. Little	Holbrook	Third assistant engineer.	"Lake Forney."
1918	John R. Carden	Haverhill	Third assistant engineer.	"Lake Fernwood."
1918	*Bernard F. Hurld	Stoneham	Third assistant engineer.	"Van Dyke."
1918	Karl W. Newman	Brockton	Third assistant engineer.	"De Soto."
1919	John D. Cunningham	Quincy	Third assistant engineer.	"Lake Sapor."
1919	George C. Clements	Lynn	Third assistant engineer.	"Vanguard."
1919	Dominik J. Cusolito	Somerville	Third assistant engineer.	"Malden."
1919	George E. Forsberg	Worcester	Third assistant engineer.	"Anaconda."
1919	Carl W. Holmes	No. Easton	Third assistant engineer.	"City of Rome."
1919	Charles B. Mitchell	Lawrence	Third assistant engineer.	"Malden."
1919	Harding Smith	Nantucket	Third assistant engineer.	"Floridian."
1919	Charles H. Stickel	E. Lynn	Third assistant engineer.	"Bylayl."

Officers in the Merchant Marine — Concluded.

Year.	Name.	Residence.	Position.	Vessel or Service.
1920	James N. Oldroyd	Lynn	Third assistant engineer.	"Lake Butler."
1920	Earle F. Clegg	Worcester	Third assistant engineer.	"Puget Sound."
1920	William R. Hendy	Stow	Third assistant engineer.	"Lake Frazee."
1920	Joseph F. Burke	Everett	Third assistant engineer.	"West Gotamska."
1920	Robert D. Mariner	Cambridge	Third assistant engineer.	– –
1920	Ralph B. Warner	Marlborough	Third assistant engineer.	– –
1920	*Joseph H. Donahue	Lawrence	Third assistant engineer.	Gulf Refining Company.
1920	Arthur G. Berteaux	Boston	Third assistant engineer.	"Seneca."
1920	*Chesley L. Kenyon	Huntington	Third assistant engineer.	"Maddeget."
1920	John D. Young	Winthrop	Third assistant engineer.	"Selitz."
1920	Charles J. Gibson	Beverly	Third assistant engineer.	"Crabtree."
1920	John L. Flanagan	Lawrence	Third assistant engineer.	"Riverside Bridge.
1920	Joseph H. Flanagan	Lawrence	Third assistant engineer.	"Lake Lasang."
1921	Frederick L. Murphy	Roxbury	Third assistant engineer.	"Calamares."
1921	William J. Noonan, Jr.	Mansfield	Third assistant engineer.	"Western Plains."
1922	Geo. F. Carreiro	Fall River	Third assistant engineer.	"Swift Sure."
1922	Richard W. Norcross	Needham	Third assistant engineer.	"Aguimex."
1922	Edw. A. Bouvier	Marlborough	Junior engineer	"Amolco."
1895	Horace W. Folger	Wilmington	Pilot	Boston Pilot Boat Service.
1900	I. Clarence Bailey	Kingston	Pilot	Boston Pilot Boat Service.
1902	*Arthur T. Luther	Swansea	Pilot	Panama Canal.
1902	Osborne E. McKay	Sagamore	Pilot	Panama Canal.
1900	James S. Howes	Woods Hole	Pilot	United American Lines.
1907	Frederic A. Gainard	Chelsea	Pilot	Atlantic Coast.
1915	David P. Delano	Orleans	Harbor master	Clyde & Mallory Lines.

Ship Construction.

1901	David W. Warren	Everett	Master mechanic	Curtis Bay Copper Iron Works.
1903	Edward J. Hogan	Charlestown	Assistant superintendent.	Victory Plant, Squantum.
1909	Stanton Haversham	Bridgeport	Hull draftsman	Lake Torpedo Boat Company.
1911	Henry W. Ober	Everett	Electrician	Fore River Shipbuilding Company.
1912	Joseph B. Sylvaro	Dorchester	Electrician	Fore River Shipbuilding Company.
1902	Edw. J. Campbell	Dorchester	Engineman	Navy Yard, Boston.

With United States Shipping Board, Emergency Fleet Corporation.

Year.	Name.	Residence.	Position.	Vessel or Service.
1895	Charles H. Lincoln	Detroit, Mich.	Marine surveyor and inspector.	- -
1897	Alden H. Adams	Groton, Conn.	First-class loftsman.	Groton, Conn.,
1901	Frank A. Browne	Westborough	General purchasing agent.	Philadelphia, Pa.
1911	Arthur McArdle	Sandwich	Iuspector, engineering.	Wilmington, Del.
1913	Arnold A. Laskey	Oakland, Cal.	Erecting engines	Oakland, Cal.

Instructors.

1900	*Gershom Bradford, 2d	Duxbury	Instructor in navigation.	Bradford Navigation School.
1906	*Howard G. Copeland	Malden	Executive officer	U. S. S. "Nantucket."
1907	Calvin W. Simonds	Needham	Assistant engineer	U. S. S. "Nantucket."
1909	*Ervin L. Kelley	Medford	Chief engineer	U. S. S. "Nantucket."
1912	John W. Thompson	Fairhaven	Navigating officer	U. S. S. "Nantucket."
1912	*Norman E. Merrill	Walpole	Watch officer	U. S. S. "Nantucket."

In the United States Navy.

1907	Thomas Baxter	So. Dennis	Lieutenant commander.	U. S. S. "Campus."
1898	Herbert E. Fish	Charlestown	Lieutenant	U. S. S. "Prairie."
1898	Clarence E. Wood	Fall River	Lieutenant commander.	- -
1902	John F. Murphy	Worcester	Lieutenant	Naval Experimental Station, Annapolis, Md.
1910	Russell H. Sullivan	Westfield	Lieutenant (junior grade).	Naval Air Station, Pensacola, Fla.
1906	William R. Dolan	Worcester	Ensign	U. S. S. "Savannah."
1916	Darrough S. Gurney	Marion	Ensign	U. S. S. "Florida."
1917	Philip G. Nichols	Peabody	Ensign	U. S. S. "Bruce."
1906	Carroll L. Morgan	Beverly	Gunner	Navy Yard, Norfolk, Va.
1899	Leroy Neil	Lynn	Chief machinist	U. S. S. "Colorado."
1903	Martin H. Greeley	So. Boston	Chief machinist	U. S. S. "Galveston."
1894	Philip Macomber	Allston	Chief boatswains' mate.	U. S. S. "Putnam."

Officers in the United States Marine Corps.

1903	Leander A. Clapp	Brockton	Major	Port-au-Prince, Haiti.
1906	Clarence E. Nutting	Washington	Major	Santo Domingo, D. R.

Officers in the United States Coast Guard Service.

Year.	Name.	Residence.	Position.	Vessel or Service.
1895	Philip W. Lauriat	Medford	Lieutenant Commander.	U. S. C. G. "Acushnet."
1896	Webb C. Maglathlin	Bridgewater	Lieutenant Commander.	U. S. C. G. "Ossipee."
1897	Lorenzo C. Farwell	Dorchester	Lieutenant Commander.	United States Shipping Board, Buenos Aires.
1897	Albert F. Patterson	New York	Lieutenant Commander.	Mail Department, Third Naval District.
1899	James A. Alger	Reading	Lieutenant Commander.	Executive officer, U. S. C. G. Academy, New London, Conn.
1906	William F. Towle	Boston	Lieutenant Commander.	Division supervisor of communications, N. Y. City.
1906	Henry C. Roach	New Bedford	Lieutenant Commander.	U. S. C. G. Academy, New London, Conn.

United States Steamboat Inspection Service.

1902	Herman T. Parker	Rockport	Inspector of hulls	Boston, Mass.
1899	Frank B. Davis	Dorchester	Assistant inspector of boilers.	Boston, Mass.
1900	James F. Rawdon	Worcester	Assistant inspector of boilers.	Providence, R. I.

Officers of the United States Lighthouse Service.

1895	George E. Eaton	Woods Hole	Superintendent	Second Lighthouse District, Boston, Mass.
1904	John F. Williamson	Brockton	Captain	U. S. L. H. T. "Columbine."
1905	Harry W. Maynard	Milwaukee	Captain	U. S. L. H. T. "Hyacinth."

In the Hydrographic Office, Navy Department.

1913	*George W. Sullivan	Washington	Nautical expert	Washington, D. C.
1918	Alex. G. Anderson	Dorchester	Nautical expert	Washington, D. C.
1918	James R. Heaney	E. Lynn	Nautical expert	Washington, D. C.
1919	Charles B. Scully	Rockland	Nautical expert	Washington, D. C.
1919	Arthur O'Leary	So. Boston	Nautical expert	Washington, D. C.
1920	*Mortimer P. O'Sullivan	Medford	Nautical expert	Washington, D. C.

In the United States Coast and Geodetic Survey.

1900	Gershom Bradford	Duxbury	– –	Washington, D. C.

Appropriations.

The appropriations for the school for the fiscal year 1922, from Dec. 1, 1921, to Nov. 30, 1922, are here accounted for, as follows: —

Expenses of School Ship.	Appropriation.	Expenditures.	Difference.
Personal services	$45,200 00	$42,514 48	$2,685 52
Travel, transportation and office expenses	1,800 00	2,126 09	326 09
Food	22,000 00	19,460 10	2,539 90
Clothing	–	46 15	46 15
Furnishings and household supplies	1,100 00	1,387 55	287 55
Medical and general care	1,150 00	1,585 55	435 55
Heat, light, power, etc.	10,725 00	10,002 14	722 86
Repairs, ordinary	1,600 00	2,638 50	1,038 50
Miscellaneous	2,425 00	2,898 90	473 90
Appropriation by the Commonwealth[1]	$86,000 00	$82,659 46	
Unexpended balance	–	3,340 54	
	$86,000 00	$86,000 00	

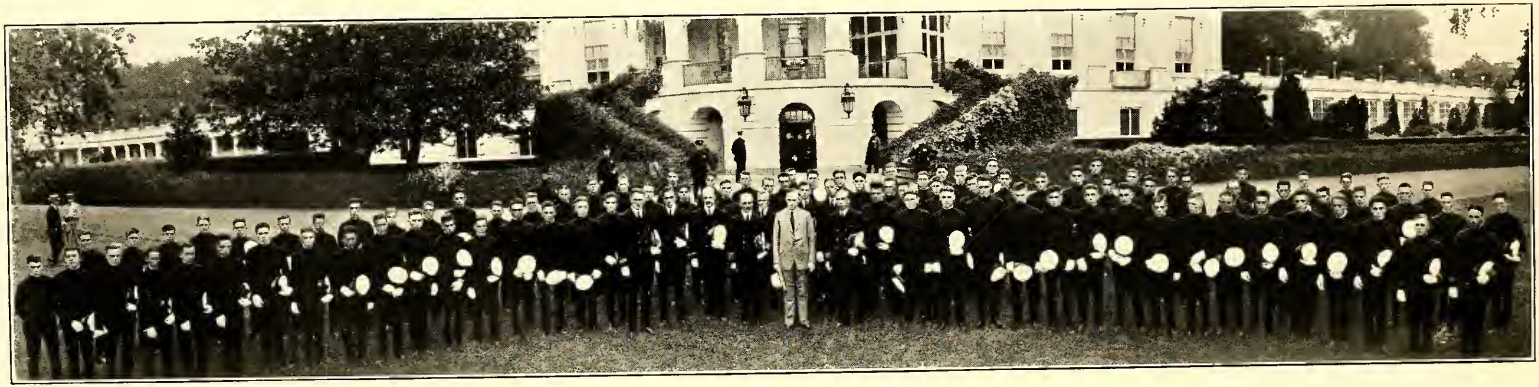
Expenses of Commission.	Appropriation.	Expenditures.	Difference.
Personal services	$4,000 00	$3,931 50	$68 50
Unexpended balance	–	68 50	
	$4,000 00	$4,000 00	
Office supplies and equipment	$197 00	$177 56	$19 44
Traveling and other services and expenses	2,403 00	2,420 61	17 61
Appropriation by the Commonwealth[1]	$2,600 00	$2,598 17	
Unexpended balance	–	1 83	
	$2,600 00	$2,600 00	

[1] The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

Respectfully submitted,

FRANCIS T. BOWLES, *Chairman.*
WILLIAM E. McKAY.
CLARENCE E. PERKINS.

Boston, Dec. 1, 1922.



The White House, September 5, 1923.

The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION.
PAYSON SMITH, *Commissioner of Education.*

ADVISORY BOARD OF EDUCATION.
THE COMMISSIONER OF EDUCATION, *Chairman, Ex Officio.*

SARAH LOUISE ARNOLD, Boston.
Mrs. ELLA LYMAN CABOT, Boston.
A. LINCOLN FILENE, Boston.
ARTHUR H. LOWE, Fitchburg.
WALTER V. McDUFFEE, Springfield.
THOMAS H. SULLIVAN, Worcester.

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL.
14 Beacon Street, Boston.

FRANCIS T. BOWLES, *Chairman.*
WILLIAM E. McKAY.
CLARENCE E. PERKINS.

WILLIAM H. DIMICK, *Secretary.*

DEPARTMENT OF EDUCATION.

Division of Elementary and Secondary Education and Normal Schools.
Division of Vocational Education.
Division of University Extension.
Division of Immigration and Americanization.
Division of Public Libraries.
Division of the Blind.
Teachers' Retirement Board.
Massachusetts Nautical School.
Massachusetts Agricultural College.
Bradford Durfee Textile School, Fall River.
Lowell Textile School.
New Bedford Textile School.

The Commonwealth of Massachusetts

Department of Education,
Boston, December 14, 1923.

To the Honorable Senate and House of Representatives.

Gentlemen: — In accordance with section 32 of chapter 30 of the General Laws, I transmit to you herewith, for the use of the General Court, the annual report of the Massachusetts Nautical School for the year 1923.

Respectfully yours,

PAYSON SMITH,
Commissioner of Education.

REPORT OF THE COMMISSIONERS.

To the Commissioner of Education.

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1923, the thirty-second annual report.

The Massachusetts Nautical School is now firmly established as an important division of the educational system of the State. A year or two ago when the suggestion was made to discontinue the work of the school, the strong public sentiment which was awakened in favor of the school in all parts of the Commonwealth clearly manifested the importance of the work and placed this institution on the soundest and strongest basis.

These are the words of His Excellency the Governor of the Commonwealth on the occasion of the annual inspection of the school by the Governor and Council on board the "Nantucket" in Boston Harbor on September 25, 1923.

The school has been conducted as usual on board the U. S. S. "Nantucket" moored during the winter at the Municipal Pier, North End Park, Boston; and during the summer the ship made a cruise of about 12,000 miles from Boston to the Mediterranean and returning to Chesapeake Bay, visiting Norfolk and Washington.

On Sept. 5, in Washington, the cadets were inspected by Calvin Coolidge, President of the United States, who was photographed with them as shown on the frontispiece.

Officers and Instructors.

The present officers and instructors of the school are as follows:

Armistead Rust, Captain, U. S. N., Retired, Superintendent and commanding officer.
Howard G. Copeland, Commander, U. S. N. R. F. (graduate M. N. S.), Executive officer.
John W. Thompson (graduate M. N. S.), Navigator.
Norman E. Merrill (graduate M. N. S.), Watch Officer.
Timothy Sullivan, Chief Boatswain, U. S. N., Retired, Watch Officer.
Ervin L. Kelley, Lieutenant, U. S. N. R. F. (graduate M. N. S.), Chief Engineer.
Charles E. Meek, Assistant Engineer.
Arthur L. Wheeler, Instructor in Mathematics.
Fletcher H. Colby, Medical officer.
Charles Parker, Paymaster and captain's clerk.

During the year there were graduated with suitable formal exercises the following 43 cadets:

George J. Andrews	Winthrop.
Duncan S. Baker	Manchester.
Francis J. Barnicle	Fitchburg.
Walter C. Bathelt	Holyoke.
Elmer H. Bridge	Fall River.
Charles E. Brown	Eastham.
George F. Carleton	Lynn.
Edson B. Cates	Winthrop.
Roy W. Chamberlain	East Lynn.
Arthur F. Cole	West Lynn.
Gerald P. Coleman	Melrose.
William T. Corfield	Roxbury.
Frederick N. Dodd	East Lynn.
Thomas F. Fairbrother	North Billerica.
Michael S. Fila	Bradford.
F. Newton Fletcher	Marlborough.
John E. Handran	Rockport.
Augustin P. Heffron	Marlborough.

John A. Hey	Lawrence.
George R. Hickey	Rockland.
Edmund M. Hourigan	Dorchester.
Alfred Humphries	Salem.
Julius F. Jacot	Beachmont.
Paul R. Jones	Gloucester.
James F. Keane	Worcester.
Cornelius T. Kelleher	Worcester.
Gordon W. Knapp	Lowell.
Aulden S. Lowey	Woods Hole.
Raymond W. Mayo	Eastham.
John K. Mills	South Natick.
George E. Morgan	Medford.
Walter J. Murphy	Roxbury.
Edward P. McGourthy	Roxbury.
William Neville	Fall River.
Raymond B. Newell	Revere.
Richard E. Pendleton	Bryantville.
Dana V. Phillips	Newton Center.
Isaac E. Pierce	Lanesborough.
Lorenzo H. Smith	North Easton.
John E. Wade	Swampscott.
Maurice L. Whelan	Whitman.
Francis T. Williams	Hyde Park.
Leman N. Wright	Rockland.

The Alumni Association of the Nautical School at the spring and fall graduation exercises awarded prizes to the best all round graduate in both the deck and engineer department. At the spring graduation the prizes were presented by Capt. George F. Waite, a graduate of the school in the class of 1899, and at the fall graduation by Capt. Charles E. Griffith, Captain of the S.S. "Aledo," a graduate in the class of 1915.

All of the above graduates obtained United States licenses authorizing them to serve on vessels of the United States merchant marine.

Applications from steamship companies for the services of the graduates exceeded the number available. The graduates were employed on the following named vessels of the merchant service:

S.S. "Mount Clinton"	United American Line.
S.S. "Reliance"	United American Line.
S.S. "Minnesotan"	American–Hawaiian Line.
S.S. "Pennsylvanian"	American–Hawaiian Line.
S.S. "Californian"	American–Hawaiian Line.
S.S. "Georgian"	American–Hawaiian Line.
S.S. "Floridan"	American–Hawaiian Line.
S.S. "Texan"	American–Hawaiian Line.
S.S. "Ossage"	Clyde Line.
S.S. "Oneida"	Clyde Line.
S.S. "Deuel"	United States Shipping Board.
S.S. "City of Eureka"	United States Shipping Board.
S.S. "District of Columbia"	United States Shipping Board.
S.S. "Hampton"	Coastwise Transportation Co.
S.S. "Bristol"	Coastwise Transportation Co.
S.S. "Maribe"	United Fruit Co.
S.S. "San Bruno"	United Fruit Co.
S.S. "West Campgaw"	Rogers and Webb.
S.S. "Ontario"	Merchants and Miners Transportation Co.
S.S. "Gulftrade"	Gulf Refining Co.
S.S. "Penobscot"	C. H. Sprague and Son.
S.S. "Camden"	Eastern Steamship Co.
S.S. "Wabash"	North Atlantic and Western Steamship Co.
S.S. "President Adams"	United States Line.
A steamer	Pacific Mail Steamship Co.

ADMISSIONS.

As the result of competitive examinations held in the spring and autumn in Boston and Springfield and from 134 candidates the following named 77 were appointed in order of merit, filling the roster of the school to capacity:

Richard G. Aaron	Medford.
Leroy N. Andrew	Lynn.
Joseph D. Barnicle	Waltham.
John P. Binney	Milford.
Harold W. Bradbury	Cliftondale.
Henry K. Bradford	Saugus.
Deforrest H. Caldon	Gardner.
Clarence D. Carlos	Provincetown.
Arthur J. Carnes	Malden.
Herbert A. Chubbuck	Brockton.
Marcellus S. Coggan, Jr.	Malden.
Houghton L. Cummings	Winchendon.
James F. Donovan	Lawrence.
Frank S. Dowd	Fall River.
Sidney P. Dunn	Gloucester.
Richard W. Fairbanks	Amesbury.
William R. Fallon	Dorchester.
Paul W. Fellows	Reading.
Joseph J. Gateley	Roslindale.
Stephen T. Gill	North Eastham.
Earl W. Glines	Beverly.
Fred A. Greenwood	Topsfield.
Ferdinand Grenier	Marlborough.
Marshall C. Harger	Springfield.
Peter L. Hickey	Rockland.
Acer N. Hilbourne	Cliftondale.
Robert B. Holmes	Lowell.
Richard L. Horne	Gloucester.
Frederick W. Hussey	Rockland.
Gerald Hyde	Buzzards Bay.
Thomas A. Jacobs	Amesbury.
Folke C. Johnson	North Easton.
Harold B. Kirkpatrick	South Athol.
Osmond C. Kretchmar	Malden.
Henry A. Lee	Beachmont.
William O. Lincoln	Hingham.
Paul L. Litchfield	Dracut.
Charles L. Lyon	Palmer.
Thomas F. Mackey	Pittsfield.
Harold M. Mann	Springfield.
Bernhard E. Marsian	Springfield.
Roland F. Melody	Lexington.
Delmont N. Merrill, Jr.	Waltham.
John G. Moore	Boston.
Laurence H. Murdoch	Dorchester.
Henry W. Murphy	Avon.
Joseph W. MacDiarmid	Mansfield.
Robert A. MacNab	Everett.
Charles J. McNulty	Gloucester.
John E. Nee	Bridgewater.
George W. Nelson	Brockton.
Harold V. Nerney	Attleboro.
Garven S. Nesbitt	Springfield.
Whitman C. Perham	West Roxbury.
Frederick N. Phillips	Swampscott.
Stanley F. Piekos	Salem.
Edward C. Pilote	Whitman.
John E. Reagan	Taunton.
Harvey J. Reynolds, Jr.	Duxbury.
Albert B. Rich	Hingham.
Stuart K. Robbins	Auburndale.
Winslow M. Rouse	Roxbury.

Joseph A. Scully	Rockland.
Joseph F. Shirt	Fall River.
Adelbert H. Smith	Dracut.
Leslie L. Smith	Worcester.
Andrew C. Smurrage	Gloucester.
Rupert K. Stewart	Melrose Highlands.
Laurence B. Swann	North Adams.
Harry E. Tower	Greenfield.
Rodman W. Vaughan	Middleborough.
David Vincola	East Boston.
James E. Walsh	Watertown.
James M. Wilson	Haverhill.
John J. Woodlock	Mansfield.
George E. Wright	Rockland.
Theodore C. Wyman	Hopkinton.

The health of the school has been excellent. It happened on the cruise, with the ship in mid-Atlantic, that a cadet was taken ill with appendicitis. He was operated upon by the surgeon successfully, being restored to full vigor before the cruise ended.

An Opportunity for Honor Graduate.

This autumn the General Electric Company offered the honor graduate in engineering employment for one year at fair compensation, with an opportunity for practical and theoretical training in marine electrical apparatus. Alfred Humphries of Salem was the first honor graduate to accept this valuable opportunity.

Commissioner appointed.

On July 1, 1923, William E. McKay was re-appointed by Governor Channing H. Cox a Commissioner of the school for three years. Captain McKay was first appointed a Commissioner in July 1908, and this is therefore his sixteenth year in the service of the school.

Appropriations.

The appropriations for the school for the fiscal year 1923, from Dec. 1, 1922, to Nov. 30, 1923, are here accounted for, as follows: —

Expenses of Schoolship.	Appropriation.	Expenditures.
Personal services	$45,200 00	$42,933 56
Travel, transportation and office expenses	1,800 00	2,269 34
Food	20,650 00	20,900 77
Furnishings and household supplies	1,150 00	1,124 68
Medical and general care	1,500 00	1,089 76
Heat, light, power, etc.	11,700 00	10,764 62
Repairs, ordinary	1,600 00	3,810 43
Miscellaneous	2,400 00	2,575 79
Appropriation by the Commonwealth[1]	$86,000 00	$85,468 95
Unexpended balance	–	531 05
	$86,000 00	$86,000 00

Expenses of Commission.	Appropriation.	Expenditures.
Personal services	$4,000 00	$3,769 18
Unexpended balance	–	230 82
	$4,000 00	$4,000 00
Office supplies and equipment	200 00	182 02
Traveling and other services and expenses	2,400 00	2,243 23
Appropriation by the Commonwealth[1]	$2,600 00	$2,425 25
Unexpended balance	–	174 75
	$2,600 00	$2,600 00

[1] The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

The estimates for the year 1924 are as follows:

Expenses of Schoolship	$88,120
Expenses of Commission	2,449
Personal Services	4,060

Respectfully submitted,

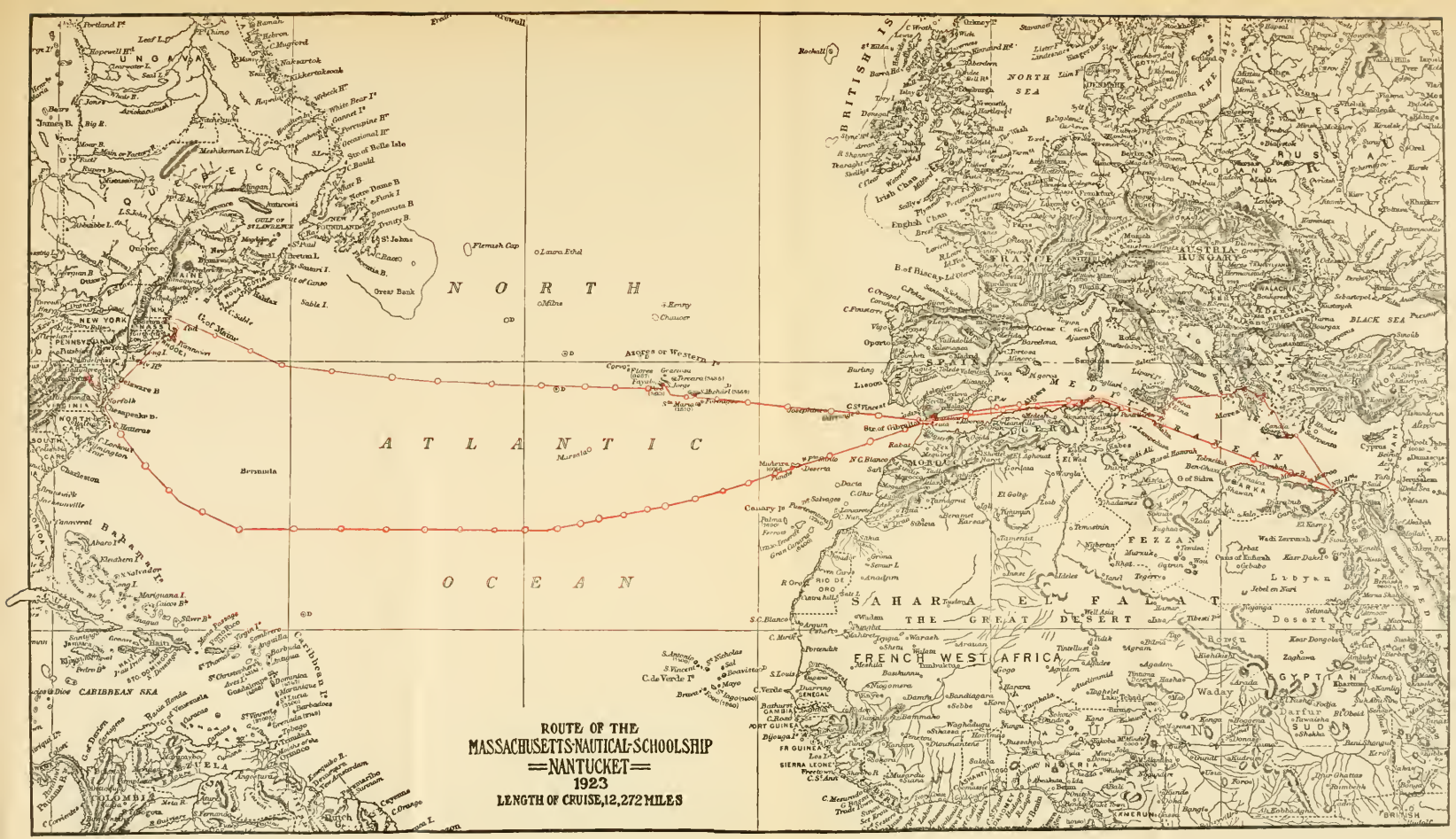
FRANCIS T. BOWLES, *Chairman.*
WILLIAM E. McKAY.
CLARENCE E. PERKINS.

Boston, Dec. 1, 1923.

ITINERARY OF THE CRUISE OF THE "NANTUCKET," 1923.

Ports.	Distance (Miles).	Left.	Arrived.
Boston–Marblehead	25	May 14	May 14
Marblehead–Boston	25	" 14	" 14
Boston–Horta, Fayal	2,032	" 17	" 29
Horta–Ponta Delgada	152	" 30	" 31
Ponta Delgada–Gibraltar	1,013	June 3	June 8
Gibraltar–Syracuse	1,037	" 13	" 19
Syracuse–Athens	477	" 22	" 24
Athens–Candia	183	" 29	" 30
Candia–Alexandria	377	July 2	July 4
Alexandria–Malta	835	" 11	" 16
Malta–Gibraltar	996	" 19	" 25
Gibraltar–Funchal, Madeira	624	" 30	Aug. 3
Funchal–Hampton Roads, Virginia	3,569	Aug. 7	" 29
Hampton Roads–Washington	179	" 29	" 30
Washington–Norfolk	187	Sept. 8	Sept. 10
Norfolk–Nantucket	436	" 13	" 16
Nantucket–Boston	125	" 22	" 24
Total distance	12,272		

Distance made under steam and sail	4,830 miles.
" " " "	5,980 "
" " " sail	1,462 "


ROUTE OF THE
MASSACHUSETTS NAUTICAL SCHOOLSHIP
NANTUCKET
1923
LENGTH OF CRUISE, 12,272 MILES
NORTH
ATLANTIC
OCEAN
NORTH SEA
BLACK SEA
SAHARA
THE GREAT DESERT
FRENCH WEST AFRICA
EL FALAT
FEZZAN
CARIBBEAN SEA
NEW YORK
Bermuda
Azores or Western Is
Canary Is
Madeira
Cape Verde Is
Sta. Maria
Ste. Maria
Sta. Vincent
Sal
Boavista
Mayo
Brava
Fogo
Tenerife
Palma
Ferro
Gran Canaria
Lanzarote
Fuerteventura
Gomera
Hierro
Flores
Graciosa
Terceira
Sao Miguel
Corvo
Pico
Faial
Sao Jorge
Sao Miguel
Sao Maria
Sao Vicente
Santiago
Maio
Boa Vista
Sao Nicolau
Sao Antao
Sao Thiago
Fernando Po
Principe
Sao Thome
Ascension
St. Helena
Tristan da Cunha
Gough I.
Falkland Is
Kerguelen I.
Crozet I.
Amsterdam I.
St. Paul I.
Madagascar
Mauritius
Reunion
Seychelles
Cocos I.
Christmas I.
Keeling I.
Chagos Arch.
Maldive Is
Laccadive Is
Andaman Is
Nicobar Is
Ceylon
Sumatra
Java
Borneo
Celebes
Ceram
Timor
Bali
Lombok
Sumbawa
Flores
Sunda Is
Philippine Is
Formosa
Hainan
Hong Kong
Canton
Macao
Shanghai
Tsingtao
Port Arthur
Vladivostok
Yokohama
Tokyo
Kobe
Nagasaki
Hakodate
Sitka
Kodiak
Unalaska
Nome
Seattle
San Francisco
Los Angeles
San Diego
Honolulu
Pago Pago
Samoa
Fiji
New Caledonia
New Hebrides
Solomon Is
Bismarck Arch.
Marianas
Marshall Is
Caroline Is
Gilbert Is
Ellice Is
Tonga
Cook Is
Society Is
Marquesas
Tuamotu Is
Pitcairn I.
Easter I.
Galapagos Is
Cocos I.
Malpelo I.
Gorgona I.
Gorgona I.
Tumaco
Buenaventura
Panama
Colon
Cristobal
Aruba
Curacao
Bonaire
Trinidad
Tobago
Grenada
St. Vincent
St. Lucia
Martinique
Dominica
Guadeloupe
Antigua
St. Kitts
Nevis
St. Thomas
St. Croix
St. Thomas
Puerto Rico
Haiti
Jamaica
Cuba
Bahamas
Bermuda
Cape Verde Is
Canary Is
Madeira
Azores
Iceland
Faroe Is
Shetland Is
Orkney Is
Hebrides
Ireland
Great Britain
Norway
Sweden
Denmark
Germany
Holland
Belgium
France
Spain
Portugal
Italy
Sicily
Sardinia
Corsica
Malta
Crete
Greece
Turkey
Cyprus
Egypt
Libya
Algeria
Morocco
Tunisia
Tripoli
Sudan
Abyssinia
Eritrea
Somaliland
Italian Somaliland
British East Africa
Uganda
Kenya
Tanganyika
Belgian Congo
Angola
Rhodesia
Nyasaland
Portuguese East Africa
Cape Colony
Natal
Orange Free State
Transvaal
Cape Town
Durban
Lourenco Marques
Beira
Mozambique
Zanzibar
Mombasa
Aden
Bombay
Calcutta
Madras
Colombo
Karachi
Rangoon
Bangkok
Saigon
Manila
Batavia
Singapore
Penang
Port Said
Suez
Alexandria
Cairo
Khartoum
Tripoli
Tangier
Gibraltar
Malta
Cyprus
Rhodes
Crete
Constantinople
Odessa
Sevastopol
Kiev
Moscow
St. Petersburg
Riga
Reval
Helsinki
Stockholm
Christiania
Copenhagen
Hamburg
Berlin
Vienna
Budapest
Prague
Munich
Cologne
Paris
London
Liverpool
Dublin
Belfast
Edinburgh
Glasgow
Cape Horn
Cape of Good Hope
Cape Hatteras
Cape Cod
Cape Ann
Cape Sable
Cape Breton
Cape Race
Cape Ray
Cape Spear
Cape Verde
Cape Blanco
Cape Bojador
Cape Finisterre
Cape Ortegal
Cape Vilano
Cape Roca
Cape Trafalgar
Cape Spartel
Cape Bon
Cape Matapan
Cape Sounion
Cape Malea
Cape Colonna
Cape Passero
Cape Spartivento
Cape Corso
Cape Bonifacio
Cape Ferro
Cape Ortegal
Cape Finisterre
Cape Vilano
Cape Roca
Cape Trafalgar
Cape Spartel
Cape Bon
Cape Matapan
Cape Sounion
Cape Malea
Cape Colonna
Cape Passero
Cape Spartivento
Cape Corso
Cape Bonifacio
Cape Ferro

CADET OFFICERS OF THE MASSACHUSETTS NAUTICAL SCHOOL.

Summer Term, 1923.

Roy W. Chamberlain, *Cadet Master.*

Navigation.

William Neville	*Cadet First Officer.*
Duncan S. Baker	*Cadet Second Officer.*
Raymond W. Mayo	*Cadet Third Officer.*

Engineering.

Aulden S. Lowey	*Cadet Engineer.*
George F. Carleton	*Cadet First Assistant Engineer.*
Alfred Humphries	*Cadet Second Assistant Engineer.*

Petty Officers.

(*Deck.*)

John E. Handran.
Edward P. McGourthy.
Joseph H. Masse.
John K. Mills.
Edward B. Ellis.
Edson B. Cates.
Dana V. Phillips.

(*Engineering.*)

Francis J. Barnicle.

Winter Term, 1923–24.

Joseph H. Masse, *Cadet Master.*

Navigation.

Arthur J. Walsh	*Cadet First Officer.*
William H. Jacobs	*Cadet Second Officer.*
Charles D. Gardner	*Cadet Third Officer.*

Engineering.

Aubrey C. Allen	*Cadet Engineer.*
Percy J. Lewis	*Cadet Electrician.*
James A. MacDonald	*Cadet First Assistant Engineer.*
Ralph L. Langille	*Cadet Second Assistant Engineer.*

Petty Officers.

(*Deck.*)

Daniel E. Murphy
Edward B. Ellis.
Ralph E. Jernberg.
John W. Malen.
William N. Baker.
John F. Laverty.
Sydney Blackledge.
Robert S. Gale.

(*Engineering.*)

J. Malcolm Joseph, *Cadet Machinist.*

CADETS TO GRADUATE, 1924.

* Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.

The names of the cadets graduated in 1923 will be found on page 2.

The names of the cadets graduating in 1925 will be found on page 4.

Class to Graduate March, 1924.

Seamanship Division.

***Masse, Joseph H.**	Everett.
***Jacobs, William H.**	Gloucester.
Jernberg, Ralph E.	Worcester.
Ellis, Edward B.	Walpole.
Baker, William N.	Leominster.
Gardner, Charles D.	Cambridge.
Walsh, Arthur J.	Watertown.
Hull, Raymond M.	Leominster.
Malen, John W.	Gloucester.
Murphy, Daniel E.	Dorchester.
Thureson, Nils E.	Dorchester.
Raynes, Albion A.	Melrose.
Laverty, John F.	Quincy.
O'Brien, James W.	Springfield.

Engineering Division.

***Lewis, Percy J.**	East Lynn.
***Langille, Ralph L.**	Boston.
***Allen, Aubrey C.**	Marlborough.
***MacDonald, James A.**	Tewksbury.
Calhoun, James A.	West Somerville.
Joseph, John M.	Dorchester.
Capen, Ellery H.	Fall River.
Gould, Horton D.	Amesbury.
Martin, Edmond P.	Lynn.
Anderson, Paul W.	North Easton.
Libby, Leo J.	Marlborough.
Barrett, Roderick L.	Prides Crossing.
Harrington, Webster F., Jr.	South Lincoln.

Class to Graduate September, 1924.

Seamanship Division.

***Blackledge, Sydney**	Pottersville.
Baker, Roger A.	Manchester.
Gale, Robert S.	Watertown.
Doyle, James F.	Holyoke.
Croteau, Lawrence W.	Manchester.
Evans, E. Emerson	Framingham.
Choquette, George A.	Lowell.
McGourthy, David G.	Roxbury.
Crossman, Malcolm E.	Taunton.
Murphy, Robert H.	Barnstable.
Everett, Frederick E.	Revere.

Engineering Division.

Henreckson, Albert R.	Sharon.
Peters, Edgar H.	North Adams.
Slattery, James E.	Westborough.
Downing, Earle B.	East Lynn.
Moran, William J.	Millis.
Gifford, Harry C., Jr.	North Easton.
Gilchrist, Norman S.	Chatham.
Seed, Daniel C.	Adams.
Evans, Edwin S.	East Walpole.

The "Nantucket" leaving Boston on the Annual Summer Cruise.

REGISTER OF GRADUATES.

Officers in the Merchant Marine.

[* Enrolled in the United States Naval Reserve during the World War.]

Year.	Name.	Residence.	Position.	Vessel or Service.
1898	Jos. E. Sheedy	Reading	Vice-president	United States Shipping Board, Washington, D. C.
1909	Robert S. Sparrow	Eastham	Assistant General Agent	A. H. Bull Line.
1901	*John J. Coholan	So. Boston	Marine superintendent	Galveston, Tex.
1903	*Robert B. Powers	Brockton	Marine superintendent	United States Shipping Board, Philadelphia, Pa.
1911	Norris T. Ela	Douglas	Marine superintendent	Atlantic, Gulf & Pacific Corp., Baltimore, Md.
1903	Nicholas J. Kane	Whitman	Marine superintendent.	American-Hawaiian Line.
1919	Richard R. McNulty	Gloucester	Assistant marine superintendent.	Mallory Transport Lines.
1899	Edward G. Smith	Boston	Port captain	Freeport Sulphur Company.
1901	Theodore H. Bicknell	Melrose	Port captain	Union Sulphur Company.
1905	*Walter L. Smith	Ashburnham	Port captain	United States Shipping Board, Baltimore, Md.
1913	*Arthur G. Burt	Whitman	Assistant Manager	United States Shipping Board, New York, N. Y.
1894	James E. Reardon	Roxbury	Captain	"Lake Frugality."
1894	Henry G. Carpenter	Roxbury	Captain	"W. L. Steed."
1894	Albert L. Warner	Wollaston	Captain	"Lake Gardner."
1895	Walter J. Healey	Worcester	Captain	"E. T. Bedford."
1895	Geo. L. P. Covell	Roxbury	Captain	"Henry S. Groves."
1896	*Wm. N. P. Baker	Brooklyn	Captain	"Argosy."
1896	Alvin W. Haynes	Somerville	Captain	"Colon."
1896	Henry R. Bodge	Wollaston	Captain	– –
1896	Geo. R. Lauriat	Ft. Moultrie	Captain	"Gen. Brannan."
1897	H. W. G. Atkins	Reading	Captain	– –
1897	*Frederick W. Jones	Winchester	Captain	"Quaker City."
1897	Mina Dailey	Rockport	Captain	"Harwood."
1897	Chas. W. Clift	Whitman	Captain	"Gen. J. M. Schofield."
1898	*Louis E. Congdon	Boston	Captain	"Swift Eagle."
1898	*Carl E. A. Anderson	Brooklyn	Captain	"Arizonan."
1899	*Walter S. Lynch	Chelsea	Captain	– –
1899	Richard T. Blackford	Marblehead	Captain	– –
1900	Joseph E. Gately	Marlborough	Captain	"Balsam."
1900	*James S. Howes	Pawtucket	Captain	"Minnesotan."
1900	William B. Knight	Bellingham	Captain	"Catherine D."
1900	Alfred M. Cummings	Worcester	Captain	"Lancaster."
1901	Charles D. Harrington	Boston	Captain	"Joseph R. Parrott."
1901	Robert W. Tucker	Kendal Green	Captain	"Panaman."
1902	*A. Russell Cushing	Allston	Captain	"Aledo."
1902	*Edwin J. Madden	Clifton, N. J.	Captain	"Blue Triangle."
1903	Mark Woodbury	San Francisco	Captain	"Magunkook."
1903	Benj. O'Connell	Peabody	Captain	"Wheeling Mold."
1903	*Harry M. Bostwick	Northbridge	Captain	"Suspearco."
1904	*Andrew J. Iverson	Bristol	Captain	"Tivives."
1904	*Edward C. Roberts	No. Beverly	Captain	– –
1905	*Frederick S. Walker	Reading	Captain	"Everett."
1905	*Harold H. Gridley	Dorchester	Captain	"Darden."
1905	*James A. Crocker	Nahant	Captain	"Freda."
1906	*Wm. H. Lee	Malden	Captain	"Artegas."
1906	*Geo. C. Bosson	Reading	Captain	"James S. Whitney."
1907	*Elmer B. Small	No. Truro	Captain	"Agwistone."
1907	*William M. Gifford	Woods Hole	Captain	"Belleflower."
1907	Frazier L. Sears	E. Dennis	Captain	"Bramell Point."
1908	*Eugene P. Shevlin	E. Boston	Captain	– –
1908	Chester B. Mellen	Quincy	Captain	– –
1908	*Edward S. Ells, Jr.	Haverhill	Captain	– –
1909	Harold C. Cooper	Worcester	Captain	"Polarine."
1909	*Carroll E. Higgins	Somerville	Captain	"Mount Carroll."
1909	*Eric E. Winquist	Mattapan	Captain	– –
1909	William A. Sillars	Danvers	Captain	"L. J. Drake."
1910	*Chester E. Morris	Brooklyn	Captain	– –
1911	Frederic J. Shaw	Winthrop	Captain	– –
1911	*Charles F. Fornason	Marblehead	Captain	– –
1911	*Wesley F. Besse	Somerville	Captain	"De Soto."
1911	*Harold S. Dexter	Mattapoisett	Captain	– –

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1911	*Henry O. K. Hanson	Neponset	Captain	– –
1911	*Raymond C. Vose	Norfolk	Captain	"Dauperata."
1911	*Eugene W. Miller	E. Saugus	Captain	"Western Glen."
1912	*Harold Ertel	Longmeadow	Captain	– –
1912	*Clarence L. Howard	Wellesley	Captain	– –
1912	Russell A. Eastman	Mattapoisett	Captain	"Rotarian."
1913	Philip J. Fanning	Baltimore	Captain	"Deer Lodge."
1913	*Everett O. Swinson	E. Gloucester	Captain	"Gen. Goethals."
1913	*Borden A. Tuell	New Bedford	Captain	"Jacona."
1913	*Ralph W. Dearborn	Mansfield	Captain	"Alloway."
1913	*John A. Maddock	Newburyport	Captain	– –
1913	Wilfred H. Senior	Dorchester	Captain	– –
1914	John L. Kirchner	Hinsdale	Captain	New York, New Haven & Hartford Railroad tugs.
1914	Nelson T. Nutter	Newburyport	Captain	"Chamblee."
1914	Samuel A. Gates	Malden	Captain	– –
1914	Samuel J. Lee	Roxbury	Captain	"West Loquassuck."
1915	Chas. N. Bamforth	Swampscott	Captain	"Ohioan."
1915	*Leland M. Marshall	Allston	Captain	"Advance."
1915	Harold F. Craven	Lawrence	Captain	"Gulfland."
1915	*Chas. E. Griffith	Cambridge	Captain	– –
1916	*William E. Lord	Springfield	Captain	"Anacortes."
1916	John A. Rylander	Springfield	Captain	"Steel Trader."
1916	Clayton W. Collins	Waquoit	Captain	"Baytown."
1917	Alan R. Barton	Winthrop	Captain	– –
1917	*Herbert W. Susmann	Dorchester	Captain	– –
1895	Harold W. Davis	Somerville	First officer	"Cottonwood."
1897	*Herbert P. Smith	Nantucket	First officer	– –
1898	*Harlowe Johnson	Mattapoisett	First officer	– –
1898	*Charles H. Kilmer	Somerville	First officer	"West Zeda."
1898	*James H. Willey	Santa Cruz	First officer	"West Ira."
1900	Clayton G. Parsons	Salem	First officer	"West Cape."
1900	Winthrop R. Cutts	Stoneham	First officer	– –
1900	*E. Newton Parker	Greenfield	First officer	"Brookline."
1900	Edward Smith	Melrose	First officer	"Hartford."
1902	*Fred C. Seibert	Greenfield	First officer	"Mount Carroll."
1902	*Arthur P. Jensen	Vallejo, Cal.	First officer	– –
1906	*Lewis B. Butler	Worcester	First officer	"Lake Fear."
1907	Philip B. Marcy	Brookline	First officer	"Ameland."
1908	*Ernest F. Robinson	Greenville	First officer	"Reliance."
1911	*Wm. M. Gorham	W. Somerville	First officer	"Lurline."
1911	*Charles C. Plummer	Cambridge	First officer	"Steadfast."
1912	*Herbert A. Burns	New Bedford	First officer	– –
1912	Clarence L. Howard	Wellesley	First officer	– –
1912	*Ralph E. Merithew	Haverhill	First officer	"Ambridge."
1912	*Kenneth E. Cahoon	W. Tisbury	First officer	"Aurora."
1912	*William H. O'Donoghue	Roxbury	First officer	– –
1912	*Joseph M. Daniel	Osterville	First officer	– –
1912	*Ellenwood Folger	Siasconset	First officer	"Benj. Brewster."
1912	*Albert H. Acorn, Jr.	Malden	First officer	"Corsica."
1913	James A. MacCabe	Osterville	First officer	– –
1913	*Philip H. Waldron	E. Milton	First officer	"Coahoma County."
1913	*Frederick L. Howland	So. Dartmouth	First officer	"Western Ally."
1913	*Waldon A. McIntire	E. Gloucester	First officer	"Martha Washington."
1913	*Frank H. Nelson	Fall River	First officer	"Florence Luckenbach."
1914	Edward F. Murphy	Fall River	First officer	"Lewis Luckenbach."
1914	*Geoffrey C. O'Donoghue	Roxbury	First officer	"Cuba."
1914	*Gerard R. Crosby	Orleans	First officer	"Minnesotan."
1914	James A. Stowell	Walpole	First officer	"Yucatan."
1914	*F. Palmer Harrington	Malden	First officer	"Putnam."
1915	*Ralph S. Moore	New York	First officer	"Steel Mariner."
1915	*Charles H. Hurley, Jr.	Gardner	First officer	"Nevadan."
1915	*Arthur A. Hovgaard	Brookline	First officer	"West Raritans."
1915	Ronald B. Ford	Lawrence	First officer	"Yukon."
1915	Albert V. Jones	Fall River	First officer	"Pinthis."
1915	*William C. Davenport	New Bedford	First officer	"Kroonland."
1915	Earle D. Hammond	E. Mattapoisett	First officer	– –
1915	Edward R. Rhodes	Lowell	First officer	"W. S. Miller."
1915	*Herman S. Mayo	Provincetown	First officer	"Fairmont."
1916	*Peter J. Jakmauh	So. Boston	First officer	"West Inskip."
1916	*Richard H. Dunphe	Brockton	First officer	"Victorious."
1916	*J. Prescott Mahoney	W. Wareham	First officer	"Bristol."
1916	*Paul H. Browne	Roslindale	First officer	"Satartia."
1916	Arthur J. Kenney	Brookline	First officer	"Circinus."
1916	Harold R. Congdon	Somerville	First officer	"Amolco."
1916	*Thomas B. Lufkin	Gloucester	First officer	"Katahdin."
1916	Charles A. Martell	Somerville	First officer	"Steel Engineer."
1916	*Edwin T. Fletcher	Springfield	First officer	"Wheaton."
1917	Alton E. Borden	Fall River	First officer	"West Inskip."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1917	Robert H. Sheridan	Stoneham	First officer	– –
1917	William W. Storey	Stoneham	First officer	"Turialba."
1917	Stanley F. Roberts	Springfield	First officer	– –
1917	*Russell W. Thresher	Southbridge	First officer	"Bantu."
1917	Franklin B. Atwood	Nantucket	First officer	"Delco."
1917	David M. McLaren	Dedham	First officer	"Eastern Planet."
1917	A. Henry Rowe	Roslindale	First officer	"Kisnop."
1917	Ivan Freeman	E. Orleans	First officer	"Ossaban."
1917	Luther C. Kingsbury	Wellesley	First officer	"Riverside Bridge."
1918	Hartley Hoffses	Quincy	First officer	"Hickman."
1918	Alden L. Strout	Boston	First officer	"Jonancy."
1918	Max Distelman	Newburyport	First officer	"Lackawanna Bridge."
1918	Raymond E. Saunders	Somerville	First officer	"Everglades."
1918	William S. Reagh	Wakefield	First officer	"Plymouth."
1918	*William H. Fitzgerald	Revere	First officer	"Chester Valley."
1918	G. Minard Cunningham	Lawrence	First officer	– –
1918	Jacob Popkin	Malden	First officer	"Yuka."
1918	Raphael W. Hill	Provincetown	First officer	"Lake Elmhurst."
1918	Leonard C. Walen	Gloucester	First officer	"Deuel."
1918	James E. Fraser	Boston	First officer	"Esparta."
1918	Ira D. Dean	So. Natick	First officer	"Limon."
1919	Harry C. Lord	Springfield	First officer	– –
1919	Sherman W. Reed	Dorchester	First officer	"Sula."
1919	Charles F. Bossom	Arlington	First officer	"Macerata."
1920	Francis X. Landrey	Roslindale	First officer	"Suduffco."
1920	*J. Francis Devlin	Salem	First officer	"President Adams."
1922	Vincent F. J. Hancock	Fall River	First officer	"Frank A. Morey."
1894	Alfred J. O'Leary	Worcester	Second officer	"Adacia."
1902	*George Castle	Lynn	Second officer	"Lake Fanning."
1904	Leslie F. Holmes	Whitman	Second officer	– –
1904	*Charles H. Stoddard	Brookline	Second officer	– –
1906	John Ruyter	Rochester	Second officer	"Lake Ellio."
1907	Herbert Garity	Boston	Second officer	"Dorothy."
1910	Franklin K. Tyler	Beachmont	Second officer	"Saramacca."
1911	*Angelo A. Aicardi	So. Boston	Second officer	– –
1912	Harold L. Winslow	Canton	Second officer	"America."
1913	Frederick A. Stainforth	Winthrop	Second officer	"Panaman."
1913	John W. Crocker	Nahant	Second officer	"Western Spirit."
1913	Alden L. Hodges	Boston	Second officer	"Lake Linden."
1914	*Joseph L. Turner	Amherst	Second officer	– –
1914	Ten Eyck H. Reed	So. Framingham	Second officer	"West Loquassuck."
1914	*William H. Fogarty	Dorchester	Second officer	"Afoundria."
1914	Laurence L. Horton	Eastham	Second officer	"Prince Frederick Henry."
1914	David H. Swinson	E. Gloucester	Second officer	"Gen. W. C. Gorgas."
1915	*Russell C. Damon	Hingham	Second officer	"Lake Ellsbury."
1915	*Curtis C. Fales	Westborough	Second officer	"Santa Clara."
1915	*Chas. P. Jacobson	Everett	Second officer	"Oskawa."
1915	Sidney F. Nichols	Worcester	Second officer	"Malden."
1915	Russell L. Saunders	Allston	Second officer	– –
1916	*Frank M. Perrin	Worcester	Second officer	– –
1916	*Randall F. Elder	Brighton	Second officer	"Eastern Crown."
1916	*John T. Crowell, Jr.	Gloucester	Second officer	"Blanche Pendleton."
1916	*Harold S. Ireland	Somerville	Second officer	"Eclipse."
1916	Clifford E. Stanley	Salem	Second officer	United States Shipping Board.
1916	Fred E. Wilcox	Indian Orchard	Second officer	– –
1917	*Percie A. Crosby	Everett	Second officer	"Chester Valley."
1917	Sydney L. MacLaughlin	Wollaston	Second officer	"Reliance."
1917	*Earl S. Francis	Athol	Second officer	– –
1917	*William M. Preston	Beverly	Second officer	– –
1917	Charles F. Huffman	W. Somerville	Second officer	"West Hambrie."
1917	*Frank M. Moore	Forest Hills	Second officer	"Malden."
1917	*Bradford S. Wilson	Brookline	Second officer	– –
1917	Ernest V. Wyatt	Boston	Second officer	"Mahommet."
1917	Donald MacWhinnie	New Bedford	Second officer	"Sinsinawa."
1918	James C. McKenzie	Dorchester	Second officer	"Ahala."
1918	Arthur B. Gibbs	Nantucket	Second officer	"Houston."
1918	Harold S. Damon	Plymouth	Second officer	– –
1918	Almer T. Hovland	Newton Lower Falls.	Second officer	"Lake Gakona."
1918	Geo. R. Stockbridge	Wellesley	Second officer	"Anacortes."
1918	Wilbur W. Woods	Provincetown	Second officer	– –
1918	James R. Moore	Lexington	Second officer	"Lake Sunapee."
1918	James J. Crowley	No. Abington	Second officer	– –
1918	James H. Lowry	Canton	Second officer	"Lake Ellesmere."
1918	Gerald K. Sanborn	Lawrence	Second officer	– –
1918	G. Minard Cunningham	Lawrence	Second officer	"Fred W. Weller."
1919	Llewellyn Roberts	Arlington	Second officer	"West Carothon."
1919	Richard F. Nickerson	So. Duxbury	Second officer	"Henry Groves."
1919	Roy D. Hall	Dennis	Second officer	– –

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1919	Paul E. Purdy	Everett	Second officer	"Oronoke."
1919	William B. Studley	Fairhaven	Second officer	"Steel Exporter."
1919	Jack A. Fraser	Brighton	Second officer	"Seaconnet."
1919	Harry E. Hopkins	No. Eastham	Second officer	"William Green."
1919	*Gordon A. Littlefield	Cambridge	Second officer	"Robert E. Hopkins."
1919	Walter J. Cronin	Somerville	Second officer	– –
1919	Arthur G. Morrill	Melrose	Second officer	"West Lashaway."
1919	Paul Stone	Pigeon Cove	Second officer	"Western Glen."
1919	Walter W. Jenness	Malden	Second officer	"Swiftarrow."
1919	William H. Moulton	Bedford	Second officer	"F. J. Luckenbach."
1919	Charles W. Torrey	Rockland	Second officer	"Ohioan."
1919	Charles E. Gilman	Somerville	Second officer	"Elkwater."
1919	Francis J. Harrington	Revere	Second officer	"Swift Eagle."
1919	John J. Mahoney	Revere	Second officer	"Otho."
1920	George P. Lord	Salem	Second officer	"Wabash."
1920	Wm. S. Tyrrell	Cambridge	Second officer	"O. T. Waring."
1920	William G. Watt	Chicago, Ill.	Second officer	"Monticello."
1920	*Oswald J. Griffin	Fall River	Second officer	"Ambridge."
1920	Erwin F. Colburn	Somerville	Second officer	"San Jose."
1921	Theodore W. Marvin	Roxbury	Second officer	"Steel Worker."
1905	*Laurence G. Kelley	Taunton	Third officer	– –
1912	Francis J. McGowan	Somerville	Third officer	"Lake Grampus."
1913	*Oliver P. Shattuck	West Acton	Third officer	"Reliance."
1916	*Albert Bianchi	Worcester	Third officer	– –
1916	*Howard U. Chase	Nantucket	Third officer	– –
1916	*Byron H. Paine	New Bedford	Third officer	"S. B. Hunt."
1917	*Richard H. Hopkins	W. Somerville	Third officer	"Santore."
1918	*Edgar G. Glines	Beverly	Third officer	"Roanoke."
1918	Raymond P. Abbott	Newburyport	Third officer	"Sinsinawa."
1919	Frederick T. DeLeskey	East Boston	Third officer	"Corsica."
1919	John W. Donahoe	Dorchester	Third officer	"Lake Larrabee."
1919	*Harold B. Wilkinson	Lynn	Third officer	"Lake Galando."
1919	Harold T. Longmore	Stoneham	Third officer	"Munamai"
1919	Harry C. Howe	Stoneham	Third officer	– –
1919	*Nelson E. Gardiner	Fitchburg	Third officer	"West Ceba."
1919	Alfred A. Needham	Manchester	Third officer	"Ardena."
1919	George A. Henderson	Brighton	Third officer	– –
1919	Robert S. O'Brien	Malden	Third officer	"Carlton."
1919	Ernest B. Waters	Nahant	Third officer	"Tivives."
1920	Daniel J. Coughlin	Lowell	Third officer	– –
1920	*Fred M. Full, Jr.	Rockport	Third officer	– –
1920	*Clarence A. Bartlett	Lowell	Third officer	"Western Comet."
1920	*Noble M. Hartley	Winthrop	Third officer	"Lake Fagundas."
1920	*Thomas F. Coughlin	Roslindale	Third officer	– –
1920	*Laurence R. Jacques	Springfield	Third officer	"Ossa."
1920	*Fred C. B. Steinmetz	Springfield	Third officer	"Winona."
1920	*Roger W. Osborne	E. Lynn	Third officer	"Gulfland."
1920	Theodore Collins	Milton	Third officer	"Springfield."
1920	*Joseph G. Dean	Springfield	Third officer	"Astmahco."
1920	*Charles A. Freeman, Jr.	Taunton	Third officer	"Lake Foch."
1920	Roger W. Clarke	Auburndale	Third officer	"Minnesota."
1920	*Richard B. Taylor	W. Somerville	Third officer	"Romulus."
1920	*Ralph E. Tilton	Fitchburg	Third officer	"Crawl Keys."
1920	John F. Hannan	Mattapan	Third officer	"Egremont."
1920	Charles R. Clarke	Lynn	Third officer	"Minnesotan."
1920	Alex. M. S. Paddock	Cambridge	Third officer	"Morristown."
1920	Raymond A. Bowen	Gloucester	Third officer	"Red Mountain."
1920	*David F. Atwood	W. Falmouth	Third officer	"Lucian."
1921	Roger J. O'Sullivan	W. Medford	Third officer	"Eastern Blade."
1921	John A. Robertson	Boston	Third officer	"Pennsylvanian."
1921	Robert E. Taylor	Boston	Third officer	"Peter H. Crowell."
1921	J. Blaisdell Wells	Somerville	Third officer	"Nevadan."
1921	Charles G. Foster	E. Brewster	Third officer	"Ipswich."
1921	George A. Perkins	North Carver	Third officer	– –
1921	Lawrence T. Sullivan	East Boston	Third officer	"M. T. Brush."
1921	Philip W. Atkinson	Fitchburg	Third officer	"Media."
1922	John F. Mulvey	Roslindale	Third officer	"Millinocket."
1922	Webster G. Farrell	Dorchester	Third officer	"Esparta."
1922	Carroll P. Burgess	Bournedale	Third officer	"Swift Scout."
1922	William C. Mahoney	Somerville	Third officer	"O. T. Waring."
1922	George Worth	Cambridge	Third officer	"Virginian."
1922	Arthur O. Brady	Rockland	Third officer	"Missourian."
1922	Kenneth C. Mayo	Provincetown	Third officer	"Manitowac."
1922	Robert M. Pierce	Rockport	Third officer	"Ohioan."
1922	Scranton H. Redfield	Lynn	Third officer	"Deuel."
1923	William T. Corfield	Roxbury	Third officer	– –
1900	*Hollis M. Cornwall	Melrose	Division Superintendent	Merchants & Miners Transportation Co.
1907	Paul R. Smith	Brooklyn	Superintending Engineer	Kerr Steamship Co.
1900	Norris R. Sibley	Worcester	Manager, New York District.	London Steam Turbine Company.

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1905	Charles F. Tarr	Taunton	Port Engineer	United States Shipping Board, Philadelphia, Pa.
1895	Michael D. Sullivan	San Francisco	Chief engineer	"Rosecranz."
1896	*James H. B. Meehan	Lowell	Chief engineer	– –
1898	William E. Ballsdon	Neponset	Chief engineer	"Herman Winter."
1898	Wilbur S. Lamont	Leominster	Chief engineer	"West Hargrave."
1898	*Everett S. Ransom	E. Mattapoisett	Chief engineer	– –
1898	Charles E. Rowe	Lynn	Chief engineer	– –
1898	*John C. Ganser	Jersey City	Chief engineer	"Bird City."
1900	*Charles E. Lowe	Roxbury	Chief engineer	"Eastern Trader."
1900	Elmer P. Butterworth	Port Arthur	Chief engineer	"Gulfking."
1900	William Glover	Wilmington	Chief engineer	"West Celina."
1901	*Eugene I. K. Murphy	New York	Chief engineer	– –
1901	*Robert A. Patterson	Cambridge	Chief engineer	– –
1902	Daniel F. Butler	Waltham	Chief engineer	"Gloria."
1903	*James S. McGarry	New York	Chief engineer	"El Alba."
1903	*Edmund E. Powers	Cambridge	Chief engineer	"Texarkana."
1904	Charles W. Bumpus	Wareham	Chief engineer	"City of Gloucester."
1904	*Cecil L. McIntyre	Ashmont	Chief engineer	"Olen."
1905	*Walter C. Lockhart	Washington	Chief engineer	– –
1905	*Fred G. Carlton	Maynard	Chief engineer	"H. D. Morse."
1906	*Augustus C. Caldwell	Dorchester	Chief engineer	– –
1906	Victor M. Foster	Revere	Chief engineer	"Tuckahoe."
1906	Bradford N. A. Gladding	Newport	Chief engineer	– –
1906	*Arthur G. Burbank	Carver	Chief engineer	– –
1907	*George H. Stickney	Watertown	Chief engineer	– –
1907	*Samuel P. Osgood	Middleborough	Chief engineer	"Bessemer City."
1907	*Archie E. Bragg	New Bedford	Chief engineer	– –
1908	*Thomas B. Pellett	Worcester	Chief engineer	– –
1909	*Everett B. Ward	New York	Chief engineer	– –
1909	William A. Sullivan	E. Boston	Chief engineer	Mine sweeper.
1909	*Leo A. Keating	Natick	Chief engineer	"F. J. Luckenbach."
1909	Richard K. Henry	Pittsfield	Chief engineer	"Silverbrook."
1909	*Samuel J. Miller	Fall River	Chief engineer	"Lehigh."
1910	George W. Sibley	Worcester	Chief engineer	"Geo. W. Barnes."
1910	R. Wilbur Anderson	Mattapan	Chief engineer	"Passaic Bridge."
1911	*Robert F. Phinney	Mattapan	Chief engineer	"Matinicock."
1911	Harvey M. Thorndike	Cliftondale	Chief engineer	"El Capitan."
1912	William A. Hamilton	Cliftondale	Chief engineer	– –
1912	Richard K. O'Connell	North Easton	Chief engineer	"Nelson."
1912	*John M. Marks	Gloucester	Chief engineer	"Burnwell."
1912	*Richard J. Cavanaugh	New Bedford	Chief engineer	"Agwismith."
1914	*Arthur C. Goodwin	Somerville	Chief engineer	"Peter H. Crowell."
1915	*Philip J. Durney	Gloucester	Chief engineer	"Gloucester."
1916	*Percy C. Stevens	Avon	Chief engineer	– –
1917	*John D. Noonan	Mansfield	Chief engineer	"Yaklok."
1918	John R. Donlin	Medford	Chief engineer	– –
1897	Augustus T. Holmes	Ipswich	First assistant engineer	"J. M. Guffy."
1898	Frank P. Killion	Honolulu	First assistant engineer	"Mauna Loa."
1898	Chas. E. Perry	Hyde Park	First assistant engineer	"Bibbco."
1900	Earle P. Marshall	No. Easton	First assistant engineer	"Lake Buckeye."
1901	*Ernest E. Sackett	Lynn	First assistant engineer	"Wampum."
1902	Augustus W. Hart	No. Truro	First assistant engineer	– –
1904	*Benj. L. Welch	Lynn	First assistant engineer	"Eastern Chief."
1904	Edward J. Chadbourne	Reading	First assistant engineer	– –
1904	William Stewart	Charlestown	First assistant engineer	– –
1905	Thomas W. Chisholm	Washington	First assistant engineer	– –
1907	*Joseph R. Wier	Saundersville	First assistant engineer	"Mexican."
1909	*William E. Caddigan	Dorchester	First assistant engineer	– –
1909	Fritz T. Kebler	Rochdale	First assistant engineer	"Henry F. Dimock."
1910	Leslie S. Badger	Norfolk, Va.	First assistant engineer	"Galveston."
1910	Harold C. Grover	Stoneham	First assistant engineer	"Nobles."
1912	Louis H. Racicot	W. Somerville	First assistant engineer	"Paul H. Harwood."
1913	Paul S. Rice	Cambridge	First assistant engineer	"Arlington."
1913	Russell A. McLay	Providence	First assistant engineer	"Currier."
1914	Leslie T. Severance	Cambridge	First assistant engineer	"Malden."
1914	Fred H. Brewster	Somerville	First assistant engineer	– –
1914	James A. Sweeney	E. Boston	First assistant engineer	– –
1914	Charles P. Tucker	Boston	First assistant engineer	"Northern Wave."
1915	*Roy C. Hartwell	New York	First assistant engineer	"Arizonan."
1915	Arthur F. Higgins	Lawrence	First assistant engineer	"Castlewood."
1915	*Clarence E. Stevens, Jr.	W. Barnstable	First assistant engineer	– –
1915	*Bernhardt Gerecke	Boston	First assistant engineer	– –
1915	John F. Houston, Jr.	Long Island	First assistant engineer	"Naugus."
1915	Arvid H. Winquist	Mattapan	First assistant engineer	"Lake Forney."
1916	*Henry A. Guba	New Bedford	First assistant engineer	"Lake Benton."
1916	*John E. Pilkington	Mansfield	First assistant engineer	"Eastside."
1916	*Paul Gorman	Marlborough	First assistant engineer	"Chickasaw City."
1916	*Carl E. Berglund	Brockton	First assistant engineer	"Toledo."
1916	*Alex. J. Phillips	Easton	First assistant engineer	"Boundbrook."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1917	Arthur Massey	No. Andover	First assistant engineer	"Conshohocken."
1917	Ernest E. Raby	No. Easton	First assistant engineer	"Liberty Minquist."
1917	*Arthur D. Murphy	Beverly	First assistant engineer	– –
1918	Raymond H. Sample	Montello	First assistant engineer	"Hohira."
1919	Loran H. Sanford	Beverly	First assistant engineer	"F. Q. Barstow."
1919	Warren L. Bailey, Jr.	Worcester	First assistant engineer	"West Saginaw."
1919	Roger W. Walcott	Florida	First assistant engineer	"Swiftarrow."
1919	Edward H. Morin	Stoneham	First assistant engineer	"Eastern King."
1919	John D. Cunningham	Quincy	First assistant engineer	"Mevania."
1896	*Arthur W. Hingham	Lawrence	Second assistant engineer	– –
1897	Perley W. Kimpton	E. Somerville	Second assistant engineer	"Shawmut."
1903	Harold A. Thompson	So. Framingham	Second assistant engineer	– –
1904	*William A. Danforth	Dorchester	Second assistant engineer	"Zerkle."
1908	Arthur E. Whiton	Greenwood	Second assistant engineer	"Norwood."
1909	*Frederick H. H. Sylvia	Nantucket	Second assistant engineer	– –
1910	William Bowen	Boston	Second assistant engineer	"Bunker Hill."
1911	David J. Fulton	Wollaston	Second assistant engineer	"Pluto."
1911	George L. Lockhart	Wakefield	Second assistant engineer	"Orion."
1911	*Alfred Marques	Charlestown	Second assistant engineer	– –
1911	Samuel D. White	Hyannisport	Second assistant engineer	"Edward Pierce."
1912	George R. Davison	Springfield	Second assistant engineer	"Ancon."
1912	Walter L. Brewster	Somerville	Second assistant engineer	Black Diamond Corporation.
1913	*Charles J. Balboni	New Bedford	Second assistant engineer	"Bessemer."
1913	Edward J. Fogarty	E. Boston	Second assistant engineer	"Ockenfels."
1914	Benj. H. Allen, Jr.	Lawrence	Second assistant engineer	"Leviathan."
1914	*Herbert T. Douglas	W. Medford	Second assistant engineer	"Lake Ontario."
1914	*C. Harold Peterson	Norwood	Second assistant engineer	– –
1914	Joseph L. Concannon	So. Boston	Second assistant engineer	"Brindella."
1915	*John Holmes	Campello	Second assistant engineer	– –
1915	*Sherman J. Barrett	Lawrence	Second assistant engineer	– –
1915	Stanislaus P. J. Ciolkosz	Taunton	Second assistant engineer	"West Jaffrey."
1916	*William W. Thomas	Concord	Second assistant engineer	– –
1916	*Joseph P. Condrey	Lowell	Second assistant engineer	"Jimmie Castlewood."
1916	*Harold W. Sanford	Springfield	Second assistant engineer	– –
1917	*Ernest C. Jensen	Provincetown	Second assistant engineer	"Lydia."
1917	Herbert A. James	Wellesley Farms	Second assistant engineer	"Lake Lida."
1917	*John T. Foye	Bridgewater	Second assistant engineer	– –
1917	Dwight W. Boyd	Randolph	Second assistant engineer	"Lake Ellendale."
1918	Joseph Freeman	Revere	Second assistant engineer	"Artegan."
1918	Ralph A. Evers	Somerville	Second assistant engineer	– –
1918	Elmer J. Kelley	Springfield	Second assistant engineer	"Lake Grogan."
1918	Stuart R. Colson	Whitman	Second assistant engineer	"O. T. Waring."
1918	Leroy B. Lowey	Woods Hole	Second assistant engineer	"Swiftwind."
1918	Francis J. Easton	Randolph	Second assistant engineer	"Branbrinno."
1918	Louis H. Johnson	Andover	Second assistant engineer	"Lake Sapor."
1919	Thomas F. Cotter	Lawrence	Second assistant engineer	– –
1919	Guy M. Hanna	Waltham	Second assistant engineer	"Surinam."
1919	Frank J. Couble	Brockton	Second assistant engineer	"Pocahontas."
1919	Walter Carey	Holyoke	Second assistant engineer	"Sinsinawa."
1920	John D. Young	Winthrop	Second assistant engineer	"Peter H. Crowell."
1921	Frederick L. Murphy	Roxbury	Second assistant engineer	"Tivives."
1921	Gerald D. Murphy	Campello	Second assistant engineer	"West Cawthorn."
1923	Walter C. Bathelt	Holyoke	Second refrigerating engineer.	"San Bruno."
1904	Alfred C. Blunt	Fitchburg	Third assistant engineer	"Faribault."
1904	Thos. F. Gosnay	Wakefield	Third assistant engineer	– –
1907	Chas. S. McDonald	Malden	Third assistant engineer	– –
1911	Walter P. Lynn	Beverly	Third assistant engineer	"Lake Copley."
1911	Joseph C. Chisholm	No. Billerica	Third assistant engineer	– –
1911	*Levi E. MacLeod	Gloucester	Third assistant engineer	– –
1913	*Nils J. Peterson	Brockton	Third assistant engineer	– –
1915	*Wilfred C. Herron	Lawrence	Third assistant engineer	– –
1916	Carleton G. Reed	Lexington	Third assistant engineer	– –
1916	Richard A. Standley	Beverly	Third assistant engineer	"Lake Benton."
1917	Philip H. Little	Holbrook	Third assistant engineer	"Lake Forney."
1918	John R. Carden	Haverhill	Third assistant engineer	"Lake Fernwood."
1918	*Bernard F. Hurld	Stoneham	Third assistant engineer	"Van Dyke."
1918	Karl W. Newman	Brockton	Third assistant engineer	"De Soto."
1919	George C. Clements	Lynn	Third assistant engineer	"Vanguard."
1919	Dominik J. Cusolito	Somerville	Third assistant engineer	"Malden."
1919	Carl W. Holmes	No. Easton	Third assistant engineer	"City of Rome."
1919	Charles B. Mitchell	Lawrence	Third assistant engineer	"Malden."
1919	Harding Smith	Nantucket	Third assistant engineer	"Floridian."
1919	Charles H. Stickel	E. Lynn	Third assistant engineer	"Bylayl."
1919	Ronald G. Macintyre	Fall River	Third assistant engineer	"Swiftstar."
1919	James F. Beatty	Lowell	Third assistant engineer	"Durango."
1920	Lorenzo C. Brown	Everett	Third assistant engineer	"Resolute."
1920	James N. Oldroyd	Lynn	Third assistant engineer	"Lake Butler."
1920	Earle F. Clegg	Worcester	Third assistant engineer	"Puget Sound."
1920	William R. Hendy	Stow	Third assistant engineer	"Lake Frazee."

Officers in the Merchant Marine — Concluded.

Year.	Name.	Residence.	Position.	Vessel or Service.
1920	Joseph F. Burke	Everett	Third assistant engineer	"West Gotamska."
1920	Robert D. Mariner	Cambridge	Third assistant engineer	– –
1920	Ralph B. Warner	Marlborough	Third assistant engineer	– –
1920	*Joseph H. Donahue	Lawrence	Third assistant engineer	Gulf Refining Company.
1920	Arthur G. Berteaux	Boston	Third assistant engineer	"Senaca."
1920	*Chesley L. Kenyon	Huntington	Third assistant engineer	"Maddeget."
1920	Charles J. Gibson	Beverly	Third assistant engineer	"Crabtree."
1920	John L. Flanagan	Lawrence	Third assistant engineer	"Riverside Bridge."
1920	Joseph H. Flanagan	Lawrence	Third assistant engineer	"Lake Lasang."
1921	William J. Noonan, Jr.	Mansfield	Third assistant engineer	"Western Plains."
1922	Geo. F. Carreiro	Fall River	Third assistant engineer	"Melrose."
1922	Richard W. Norcross	Needham	Third assistant engineer	"Swiftscout."
1922	Lloyd M. Johnson	Allston	Third assistant engineer	"Texan."
1922	Louis F. Harlow	North Easton	Third assistant engineer	"W. A. McKenney."
1922	Roy Y. Gordon	Somerville	Third assistant engineer	"Josiah Macy."
1922	Nathan S. Crowell	East Dennis	Third assistant engineer	– –
1922	Edw. A. Bouvier	Marlborough	Junior engineer	"Amolco."
1922	Frederick W. Mahoney	Somerville	Third assistant engineer	"Mount Clay."
1923	Elmer H. Bridge	Fall River	Third assistant engineer	"Bristol."
1923	George F. Carleton	Lynn	Third assistant engineer	"Penobscot."
1923	Arthur F. Cole	W. Lynn	Third assistant engineer	"Wabash."
1923	Thomas F. Fairbrother	N. Billerica	Third assistant engineer	– –
1923	Augustin P. Heffron	Marlborough	Third assistant engineer	"Ossage."
1923	Edmond M. Hourigan	Dorchester	Third assistant engineer	"Penobscot."
1895	Horace W. Folger	Wilmington	Pilot	Boston Pilot Boat Service.
1899	George F. Waite	Winthrop	Pilot	– –
1900	I. Clarence Bailey	Kingston	Pilot	Boston Pilot Boat Service.
1902	*Arthur T. Luther	Swansea	Pilot	Panama Canal.
1902	Osborne E. McKay	Sagamore	Pilot	Panama Canal.
1907	Frederick A. Gainard	Chelsea	Pilot	Atlantic Coast.
1915	David P. Delano	Orleans	Harbor master	Clyde and Mallory Lines.

Ship Construction.

1901	David W. Warren	Everett	Master mechanic	Curtis Bay Copper Iron Works.
1903	Edward J. Hogan	Charlestown	Assistant superintendent	– –
1909	Stanton Haversham	Bridgeport	Hull draftsman	Lake Torpedo Boat Company.
1911	Henry W. Ober	Everett	Electrician	Fore River Shipbuilding Company.
1912	Joseph B. Sylvaro	Dorchester	Electrician	Fore River Shipbuilding Company.
1902	Edw. J. Campbell	Dorchester	Engineman	Navy Yard, Boston.

With United States Shipping Board, Emergency Fleet Corporation.

1895	Charles H. Lincoln	Detroit, Mich.	Marine surveyor and inspector	– –
1897	Alden H. Adams	Groton, Conn.	First-class loftsman	Groton, Conn.
1901	Frank A. Browne	Westborough	General purchasing agent	Philadelphia, Pa.
1911	Arthur McArdle	Sandwich	Inspector, engineering	Wilmington, Del.
1913	Arnold A. Laskey	Oakland, Cal.	Erecting engines	Oakland, Cal.

Instructors.

1906	*Howard G. Copeland	Malden	Executive officer	U. S. S. "Nantucket."
1909	*Ervin L. Kelley	Arlington	Chief engineer	U. S. S. "Nantucket."
1912	John W. Thompson	Dorchester	Navigating officer	U. S. S. "Nantucket."
1912	*Norman E. Merrill	Cambridge	Watch officer	U. S. S. "Nantucket."

In the United States Navy.

Year.	Name.	Residence.	Position.	Vessel or Service.
1907	Thomas Baxter	So. Dennis	Lieutenant commander	U. S. S. "Canopus."
1898	Herbert E. Fish	Charlestown	Lieutenant	U. S. S. "Melville."
1898	Clarence E. Wood	Fall River	Lieutenant commander (Ret.)	– –
1902	John F. Murphy	Worcester	Lieutenant	U. S. S. "Florida."
1910	Russell H. Sullivan	Westfield	Lieutenant (junior grade)	Naval Air Station, Pensacola, Fla.
1906	William R. Dolan	Worcester	Lieutenant	U. S. S. S-13.
1916	Darrough S. Gurney	Marion	Lieutenant	U. S. S. S-11.
1917	Philip G. Nichols	Peabody	Ensign	U. S. S. "Bruce."
1906	Carroll L. Morgan	Beverly	Gunner	U. S. S. "West Virginia."
1899	Leroy Neil	Lynn	Chief machinist	U. S. S. "Colorado."

Officers in the United States Marine Corps.

1903	Leander A. Clapp	Brockton	Major	Marine Barracks, Boston.
1906	Clarence E. Nutting	Washington	Major	Santo Domingo, D. R.

Officers in the United States Coast Guard Service.

1895	Philip W. Lauriat	Medford	Lieutenant Commander	"Yumacraw."
1896	Webb C. Maglathlin	Bridgewater	Lieutenant Commander	"Ossipee."
1897	Lorenzo C. Farwell	Dorchester	Lieutenant Commander	"Manning."
1897	Albert F. Patterson	New York	Lieutenant Commander	"Unalga."
1899	James A. Alger	Reading	Lieutenant Commander	"Gresham."
1906	William F. Towle	Boston	Lieutenant Commander	"Comanche."
1906	Henry C. Roach	New Bedford	Lieutenant Commander	"Tampa."

United States Steamboat Inspection Service.

1902	Herman T. Parker	Rockport	Inspector of hulls	Boston, Mass.
1900	James F. Rawdon	Worcester	Assistant inspector of boilers	Providence, R. I.

Officers of the United States Lighthouse Service.

1895	George E. Eaton	Woods Hole	Superintendent	Second Lighthouse District, Boston, Mass.
1904	John F. Williamson	Brockton	Captain	U. S. L. H. T. "Columbine."
1905	Harry W. Maynard	Milwaukee	Captain	U. S. L. H. T. "Hyacinth."

In the Hydrographic Office, Navy Department.

1913	*George W. Sullivan	Washington	Nautical expert	Washington, D. C.
1918	Alex G. Anderson	Dorchester	Nautical expert	Washington, D. C.
1918	James R. Heaney	E. Lynn	Nautical expert	Washington, D. C.
1919	Charles B. Scully	Rockland	Nautical expert	Washington, D. C.
1919	Arthur O'Leary	So. Boston	Nautical expert	Washington, D. C.

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AMHERST, MASS.

Public Document No. 42

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The Commonwealth of Massachusetts

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1924

MASSACHUSETTS NAUTICAL SCHOOL

DEPARTMENT OF EDUCATION

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE

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The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION.

PAYSON SMITH, *Commissioner of Education.*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL.

14 Beacon Street, Boston.

FRANCIS T. BOWLES, *Chairman.*
WILLIAM E. McKAY.
CLARENCE E. PERKINS.

WILLIAM H. DIMICK, *Secretary.*

REPORT OF THE COMMISSIONERS.

To the Commissioner of Education.

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1924, the thirty-third annual report.

The Massachusetts Nautical School was established thirty-four years ago, and has been in actual operation thirty-two years. The act establishing the school was passed by the Legislature in 1891. The U. S. S. "Enterprise" was loaned to the state by the Navy Department in November, 1892. In April, 1893, the first cadets were enrolled in the school and the work began.

The school is providing young men, between the ages of seventeen and twenty years, the sons of citizens of the Commonwealth, with instruction in seamanship, navigation, marine engineering and electricity. After two years they are graduated, and upon passing an examination given by the United States Steamboat Inspectors, are given a certificate as third officer or third assistant engineer. Upon having a few months practical experience at sea in the capacity of a junior officer, they are promoted to the position of third officer, in the case of a seamanship graduate, and to the position of third assistant engineer, in the case of an engineer graduate.

The school is conducted on board the U. S. S. "Nantucket" by the Commonwealth in co-operation with the Federal government. The state appropriates funds sufficient for the operation of the school. The national government provides the ship, the replacement value of which is $450,000, most of the ship's equipment and reimburses the state to the extent of $25,000 for the expenses of maintenance.

The course of instruction continues two years. Theoretical and practical instruction is given during the winter when the ship is berthed at a municipal pier in Boston. Practical instruction is given in the summer months while the "Nantucket" is cruising.

The school since its establishment has enrolled 2,312 cadets, of whom 1,142 have been graduated, and has furnished to one line alone, the American Hawaiian Steamship Company, 126 officers. A register of the work of the graduates is given on the last pages of this report.

The Year's Work.

No marked change has taken place in the work during the year. The "Nantucket" was berthed at the usual place, the North End Park, during the winter term, and a practical and profitable five months cruise was made in the North Atlantic during the summer term. The demand for nautical education continues to tax the capacity of the school. During recent years there has been a gradual increase in the age of applicants. In 1919, the average

age of the cadets admitted was 17 years and 6 months, while the average age of candidates entered during the past year was 18 years and 6 months.

Lockers of a larger and improved pattern have been installed for the cadets. Other improvements have been a new refrigerator, an improved lighting system for the gun deck, and additional ventilators for use during the winter term. A gymnasium and suitable class rooms on shore are urgently needed in order that the school may do its best work.

Lieut. John W. Thompson, instructor in navigation, was granted leave of absence during the spring vacation in order to take a course on the Gyro-Compass at the Sperry Plant in Brooklyn, New York.

An octant has been added to the equipment of the navigator's department, the gift of Robert E. Taylor of Boston, who graduated from the school three years ago, now serving as second officer of the S. S. "Derbyline," of the Texas Oil Company.

Cadets Admitted and Graduated.

During the year 76 cadets have been admitted to the school, 39 in the spring and 37 in the fall, all selected by competitive examination from 148 applicants, the sons of citizens of the Commonwealth. Diplomas were awarded after two years' instruction to 44 graduates, 26 in the spring and 18 in the autumn. Twenty-nine have left the school for various causes without completing the course. The average number of enrolled cadets in the school has been 111; each term has begun with a capacity enrollment of 116 cadets.

Graduates' Employment.

The year's graduates received appointments on board the following American steamers: S. S. "Floridian," "Pennsylvanian," "Kentuckian," "Missourian," American Hawaiian Steamship Company; S. S. "Dillwyn," "Imlay," "Hoxbar," "Swiftlight," of the Mallory Transport Lines; S. S. "Steel Trader," Isthmian Steamship Company; S. S. "Walter Jennings," "De Soto," Standard Oil Company; S. S. "El Valle," "El Sud," "El Siglo," "El Rio," Southern Pacific Company; S. S. "San Blas," "Macabi," United Fruit Company; S. S. "Porto Rico," Porto Rico Line; S. S. "Cacique," Grace Line; S. S. "Meteor," C. H. Sprague and Son; S. S. "Montpelier," United American Lines; S. S. "Everett," Mystic Steamship Company; United States Lighthouse Tenders "Shrub" and "Anemone;" "Dorothy Luckenbach," Luckenbach Steamship Line.

Eleven graduates have been appointed recently as Ensigns in the United States Coast Guard Service.

The General Electric Company has given the honor graduate in engineering special employment, with an opportunity for practical and theoretical instruction in marine and electrical apparatus prior to service at sea.

The School Record.

During the year there have been 188 students on the rolls of the school. They came from 78 cities and towns of the Commonwealth, as follows:

Adams	1	Everett	4
Amesbury	4	Fairhaven	1
Attleboro	2	Fall River	5
Avon	2	Fitchburg	1
Barnstable	2	Framingham	1
Billerica	1	Gloucester	6
Boston	33	Hingham	1
Brockton	4	Holyoke	1
Brookline	1	Hopkinton	1
Buzzards Bay	1	Lawrence	3
Cambridge	3	Leominster	1
Cliftondale	2	Lincoln	1
Concord	1	Lowell	5
Duxbury	1	Lynn	6
Eastham	1	Malden	3
Easton	2	Manchester	2

Mansfield	3	Sandwich	1
Marlborough	2	Saugus	3
Marshfield	1	Sharon	1
Medford	1	Shrewsbury	2
Melrose	2	Somerville	4
Middleborough	2	Springfield	4
Milford	1	Swampscott	2
Millbury	1	Taunton	3
Millis	1	Tewksbury	1
Needham	1	Topsfield	1
New Bedford	1	Vineyard Haven	1
Newburyport*	1	Walpole	2
Newton	3	Waltham	2
North Adams	2	Ware	1
Palmer	1	Watertown	4
Plainville	1	Wellesley	1
Plymouth	2	Westborough	1
Pottersville	1	West Tisbury	1
Provincetown	1	Weymouth	2
Quincy	7	Whitman	2
Reading	2	Wollaston	1
Revere	2	Worcester	2
Rockland	2		
Salem	2		188

Their previous education was as follows: high schools, 156; industrial schools, 6; academies, 5; grammar schools, 3; colleges, 5; technical schools, 12; vocational schools, 1. The average age of the cadets at entrance was 18 years and 6 months. The number of cadets enrolled in the school at present is 115.

Occupation of Parents or Guardians.

Housewives	22	General jobbing	1
Salesmen	13	Trader	1
Shoe workers	9	Supervisor, state hospital	1
Retired	6	Lieutenant of police	1
Carpenters	5	Physician	1
Machinists	5	Jeweler	1
Managers	5	Leather worker	1
Foremen	5	Truckman	1
Painters	5	Traffic manager	1
Plumbers	4	Press helper	1
Clerks	4	Superintendent, cotton mill	1
Gardeners	3	Proprietor, boiler works	1
Inspectors	3	Operator	1
Storekeepers	3	Dealer in monuments	1
Grocers	3	Civil engineer	1
Dentists	3	Brick mason	1
Insurance business	3	Fisherman	1
Merchants	2	Dyemaker	1
Grinders	2	Dry goods	1
Lawyers	2	Assistant City Auditor	1
Railroad engineers	2	Sheet metal worker	1
Dressmakers	2	Shovelmaker	1
Farmers	2	Proprietor, meat market	1
Chauffeurs	2	Captain, U. S. Army	1
Overseers	2	Janitor	1
Bookkeepers	2	Hair specialist	1
Fish dealers	2	Teacher	1
Contractors	2	Prison officer	1
Proprietor, machine company	1	Engraver	1
Iron moulder	1	Loom fixer	1
Leather dealer	1	Collector	1
Secretary	1	Shipper	1
Mariner	1	Electrical engineer	1
City employee	1	Traffic engineer	1
Foreman shipbuilder	1	Patrolman	1
Shoemaker	1	Sexton	1

Superintendent, auto assembly work	1	Iron worker	1
Auto worker	1	Shirt maker	1
Deputy Governor, bank	1	Claim officer	1
Superintendent, manufacturing company	1	Baker	1
Receiver	1	District chief, fire department	1
Tinsmith	1	Signal company employee	1
Signal supervisor	1	Druggist	1
Conductor	1	Accountant	1
Laundry Proprietor	1	Porter	1
Signalman	1	Waitress	1
Butcher	1		188

Memorial Tablet.

At the graduation exercises held on September 24, the Commissioners presented to the school in behalf of the Commonwealth a bronze tablet in memory of the graduates and ex-cadets who lost their lives during the Great War.

The tablet was inscribed as follows:

MASSACHUSETTS NAUTICAL SCHOOL
IN MEMORIAM
THE GREAT WAR

April 6, 1917 – November 11, 1918

Fred J. Butterfield, Haverhill

Commanding the S. S. "Florence H." Killed April 17, 1918, when his ship was wrecked by an explosion while at anchor in France.

William J. Bonner, Dorchester

An ensign in the United States Naval Reserve Force. Graduated April 1, 1915. Died at sea from pneumonia September 20, 1918, on board the U. S. S. "Tjikenbang."

John T. Carr, Malden

A first lieutenant in the United States Coast Guard Service. Graduated April 15, 1898. Lost September 26, 1918, when the U. S. S. "Tampa" was torpedoed in the Bristol Channel.

John Erickson, New Bedford

A third assistant engineer. Graduated September 18, 1916. Lost October 11, 1917, when his ship, the "Lewis Luckenbach," was torpedoed off Brest, France.

Grant Gately, Boston

An ensign in the United States Naval Reserve Force. Graduated October 15, 1914. Lost September 30, 1918, when the U. S. S. "Ticonderoga" was sunk by the shell fire of a German submarine in mid-Atlantic.

James A. McGourty, Worcester

A machinist in the United States Naval Reserve Force. Graduated September 13, 1917. Lost April 11, 1918, when the U. S. S. "Lakemoor" was torpedoed off Crossley Light, Scotland.

John F. McGourty, Worcester

A second lieutenant in the United States Coast Guard Service. Graduated October 15, 1900. Lost September 26, 1918, when the U. S. S. "Tampa" was torpedoed in the Bristol Channel.

William A. Manchester, Brockton

A lieutenant in the United States Naval Reserve, serving on the U. S. S. "Solace." Graduated October 28, 1909. Died in hospital February 18, 1918, while on active duty.

EDWARD D. NEWELL, Gloucester

A lieutenant in the United States Naval Reserve Force and commanding U. S. S. "Cherokee." Graduated October 10, 1913. Lost February 26, 1918, when the "Cherokee" foundered during a storm.

EMERY RICE, Brighton

A lieutenant-commander in the United States Naval Reserve Force and commanding U. S. S. "Mongolia." Graduated April 3, 1897. Died January 4, 1919, at the United States Naval Hospital, Brooklyn, from pneumonia invalided from S. S. "Mongolia."

CHARLES R. SEED, Worcester

A lieutenant in the United States Naval Reserve Force. Died October 8, 1918.

MILITARY DRILL.

The cadet battalion has been given regular instruction in infantry drill whenever possible. As the school is not equipped with a gymnasium, it has not been possible to continue this instruction in stormy weather. The following report has been received from Capt. Walter M. Mann, U. S. A.:

Yesterday I had the opportunity of observing the "Nantucket's" company in the Evacuation Day parade. It may interest you to know the results of my observation.

A considerable part of my present duties consists of instructing and rendering reports on the efficiency of various military units in the First Corps Area. Based on a standard adopted for these inspections, I would rate the "Nantucket's" company in detail as follows:

Steadiness in Ranks and Individual Carriage: Excellent.
Wearing of uniform and Adjustment of Equipment: Excellent.
Intervals in Line and Distances in Column: Very good.
Position and Slope of Arms (Rifles): Excellent.
March Discipline: Excellent.

BOY SCOUTS.

The Boston Council of the Boy Scouts of America held the annual meeting on board the "Nantucket" on December 29, 1923. The program planned in co-operation with Mr. Donald North, Scout Executive, included an inspection of the ship, rope work, knot tying, and addresses by Capt. Armistead Rust, U. S. N., on the cruise of the "Nantucket," and the Secretary of the Board, on the work of the school. The latter address was illustrated with stereopticon slides.

LECTURES.

The following lectures were given on Wednesday evenings:

1923

December 5. Mr. Francis T. Bowles. Subject: Theodore Roosevelt.
December 19. Prof. Harlan T. Stetson. Subject: Astronomy.

1924

January 16. Prof. Albert Bushnell Hart. Subject: The United States in the Caribbean.
January 23. Capt. Armistead Rust, U. S. N. Subject: Deviation and Adjustment of the Compass.
January 30. Rev. John H. Ridout. Subject: The Discovery of God.
February 20. Lieut. Gershom Bradford, U. S. N. R. Subject: Hydrography and Chart Making.
February 13. In place of the usual lecture, the evening was devoted to community singing, with solos by Mr. Hubert Perry.

Graduation Exercises.

Fifty-ninth.

The fifty-ninth graduation was held on Wednesday, March 26, at 11 A.M., on board the "Nantucket" at the North End Park, the program being as follows:

Invocation: Rev. John J. Walker, Secretary of the Massachusetts Home Missionary Society.
Address by Presiding Officer: Mr. Francis T. Bowles, Chairman of Commissioners.
Address: Senator William J. Look of Martha's Vineyard.
Presentation of Alumni Association Prizes: Mr. Clarence E. Perkins, Commissioner.
Presentation of Diplomas: Dr. Payson Smith, Commissioner of Education.
Presentation of Bibles: Rev. John J. Walker.
Remarks by a Graduate: Joseph H. Masse.

Sixtieth.

The sixtieth graduation was held on board the "Nantucket" at the North End Park at 11 A.M. on September 24, 1924. Prayer was offered by Rev. Oliver W. Bell of Sagamore.

The opening remarks were made by Mr. Francis T. Bowles.

Alumni prizes were presented by Commissioner Clarence E. Perkins.

Mr. Harris Livermore, President of the Coastwise Transportation Company, was the principal speaker. The following paragraphs were taken from his address:

The Massachusetts Nautical School is a fine and fitting institution. Its graduates are actually engaged in sea going. The work it is doing is along the lines of important maritime traditions of Massachusetts. Many of the fortunes existing in the State originated three or four generations ago from trade upon the sea. The time will come when Massachusetts and New England will once more turn their thoughts and energies to the sea.

Remember that following the sea is a profession and not a trade. The property that will be entrusted to your care is of great value, and in the use of that property competition is very keen. The work of superior deck and engineer officers often means the difference between profit and loss.

The diplomas were presented by Dr. Payson Smith, Commissioner of Education.

Bibles, the gift of the Massachusetts Bible Society, were handed to the graduates with appropriate remarks by Rev. Oliver W. Bell.

Sydney Blackledge spoke for the graduating class.

Commissioner Appointed.

On July 1, 1924, Mr. Francis T. Bowles of Barnstable was reappointed a Commissioner of the school for a term of three years.

Resignation of Executive Officer.

On October 31, 1924, Commander Howard G. Copeland, U. S. N. R., Executive Officer, who had been with the school since 1917, resigned in order to accept an appointment in the United States Naval Reserve. In accepting his resignation, the Commissioners expressed their appreciation of the faithful and efficient manner in which he had always served the school.

Lieutenant Commander John J. McCracken, U. S. N., Retired, was appointed Executive Officer November 1, 1924. Lieutenant Commander McCracken has had twelve years' service in the United States Navy, in various grades from Ensign to Lieutenant Commander. He holds a master's license and was for a time master of Shipping Board vessels.

Practical Instruction.

The five months cruise for the practical instruction of cadets in seamanship and engineering was very satisfactory. Ports in England, Ireland, and France were visited, in addition to calls at Gibraltar, the Azores and Madeira Islands,

and Bermuda. Much stormy weather was encountered, making it difficult at times to carry out the regular routine.

An incident in connection with the cruise is worthy of special notice. At the request of the United States Consul, Mr. John H. Grout, the "Nantucket" visited Hull, England, on July 28, and three days later took part in ceremonies in honor of the Pilgrim Fathers, including the laying of the foundation stone of a monument at Immingham Creek on the Humber in memory of the Pilgrims. About three thousand people were present.

The program included addresses by Sir Charles Wakefield, Rev. Atkey Brewster, D.D., the United States Consul Grout, Capt. Armistead Rust, U. S. N., and Commander Howard G. Copeland, U. S. N. R. A laurel wreath was placed on the stone by Cadet H. K. Bradford.

Two cablegrams were received, one from His Excellency Channing H. Cox, Governor of Massachusetts, sending his congratulations to the Hull Anglo-American Society on the fine spirit which had prompted the erection of the monument to the Pilgrim Fathers, and one from the Chairman of the Pilgrim Tercentenary Commission, stating that the memorial would emphasize the abiding friendship of the Anglo-American peoples.

The Destroyer "Dale" of the United States Navy was present.

The inscription on the monument is as follows:

From this creek the Pilgrim Fathers first left England in 1609 in search of religious liberty. The granite top stone was taken from Plymouth Rock, Mass., and presented by the Sulgrave Institution of U. S. A. This memorial was erected by the Anglo-American Society of Hull, 1924.

In commenting on the part taken by the cadets in this historical incident, the American Consul expressed himself as follows:

On behalf of the Anglo-American Association of Hull, I desire to thank you for having assisted us to the extent of sending the "Nantucket" to Hull during the celebration of our Pilgrim monument affair. The boys proved a credit to our Old Bay State. People here were very much impressed by the superior type of young man, and I was often asked if they were a fair sample of what Massachusetts produces. You may well understand that I answered in the affirmative. The boys carried away with them information and a lesson which I believe will remain with them always and make them firm supporters of a good understanding between our country and England.

Progress of American Shipping.

The total tonnage of the United States on June 30, 1924 reached the gigantic total of 26,575 vessels of 17,740,557 gross tons, an increase of 100 per cent since 1917.

The tonnage in the foreign trade on June 30, 1924, amounted to 8,976,821 gross tons, over seven-eighths of this total having been developed since 1914.

During the past thirty years, American shipping has increased from 4,684,000 tons to 17,740,000 gross tons. During this time the tonnage in the foreign trade has increased from 916,000 gross tons to 8,769,000 gross tons.

In 1894, considerable more than one-half of our merchant fleet was comprised of sailing vessels. About one-eighth of American shipping at the present time is sail tonnage.

Ten years ago, American flag ocean going passenger ships were seldom, if ever, seen in foreign ports. American sea-going passenger vessels now number 193, with a gross tonnage of 1,200,000, and are engaged in a world-wide trade.

A new liner, an around the world liner, has taken its place in American shipping. On February 7, 1924, the S. S. "President Adams" sailed from New York for a cruise around the world. This sailing inaugurated a world steamship line with regular scheduled sailings. The "President Adams" called at 21 ports in 12 countries, completing the trip in 112 days. The Dollar Steamship Company has guaranteed to maintain this world service for five years.

The United States Shipping Board Fleet Corporation is now operating twenty-five lines of modern freight steamers in the foreign trade.

Superintendent's Report.

The following is the Superintendent's report on the summer term from April 23, 1924, to September 24, 1924:

The "Nantucket" sailed from Boston on May 13, 1924, and arrived at Washington on May 17.

A heavy swell was encountered as soon as the ship cleared the harbor, the weather was raw and disagreeable with occasional rain until the Virginia capes were reached, after which there was fine weather up the Bay and the Potomac River.

The "Nantucket" sailed from Washington on May 23 and arrived at the Navy Yard, Norfolk, Virginia, on May 24.

The refrigerating machine was overhauled by the Navy Yard force and 204.5 tons of coal were received on board.

The ship left the Navy Yard, Norfolk, on May 29 and arrived at Ponta Delgada, Azores, on June 11. A rough sea with squally weather was encountered during the entire passage.

About noon, June 2, the wind, then being at S. by E. began to increase from a fresh breeze to a moderate gale and then to a fresh gale, shifting from S. by E. to S.W. about 6 P.M., and later to N.W., then to N.E., increasing in force to a strong gale, with a falling barometer, 30, at 4 A.M., June 2, and 29.51 at 6 P.M.

At 10.30 P.M., June 2, hove to on starboard tack, on account of heavy wind and sea, with only storm sail set, the ship rolling and pitching very heavily at times in heavy cross sea. By 9 A.M., June 3, the wind and sea had so moderated that the ship was put on her course and sail made.

At 4 A.M., June 4, the barometer read 30.18 and again began to fall until 4 A.M., June 5, when it read 29.35. During this time the wind increased from a moderate breeze to a strong gale, the wind shifting from S.W. to West, N.W. and N.N.E., with heavy rain squalls at times. Ran before the gale under two boilers and close-reefed foresail with oil bags out, and no seas came on board after oil was used, but as it was found necessary to use more oil than advisable to prevent the sea breaking on board, the ship was finally hove to to wait for the sea to moderate which it did about 7.30 A.M., June 5, when the ship was put on her course.

No material damage was done by either of these gales, except the jib boom was carried away due to the ship plunging into a big sea, and two old sails were damaged beyond repair. Enough small repairs were needed to keep the crew busy for some days.

The weather was too rough during this passage to carry out the study schedule.

The "Nantucket" sailed from Ponta Delgada on June 15, and arrived at Queenstown, Ireland, on June 22, after a rather rough passage due to a head sea and rainy, squally weather. The school routine could not properly be carried out until the last two days.

Both watches were given liberty at this port, the weather being generally good during our stay.

The ship sailed from Queenstown on June 26 and arrived at Falmouth, England, on June 27.

To a sailor the most interesting things about Falmouth are the three old ships now moored there, H. M. S. "Implacable," the Frigate "Foudroyant," and the famous tea clipper ship "Cutty Sark."

The "Implacable" was formerly the French ship "Duguay-Trouin" which took part in the battle of Trafalgar, escaped, but was later captured by the British and renamed. She served 40 years as a training ship and is the last of the two-deckers of the Old Navy, as the "Victory" is the last of the three-deckers and the "Foudroyant" is the last frigate. The Admiralty has turned the "Implacable" over to Mr. G. Wheatley Cobb to save from the scrap heap by private subscription for the use of the Sea Scouts. Mr. Cobb saved the "Foudroyant" from the junk man and he now operates her as a training ship for poor boys at his own expense. At the present time he has only about 25 boys on board. I visited the "Foudroyant" and Mr. Cobb showed me over the ship which costs him about $20,000 per annum to operate. He has been engaged in this or a similar enterprise for 30 years. It is not to be wondered that Great Britain maintains her maritime supremacy when she has private citizens who take the interest in shipping that this gentleman does and that his father took before him and who left money to conduct this enterprise.

The "Cutty Sark" was recently purchased from some Portuguese and the owner is now fitting her up as she was originally. She was built in 1869 and it is said that she has made 17½ knots, her greatest day's run being 353 miles.

Leaving Falmouth on July 2, the "Nantucket" arrived at Rouen, France, at 6 P.M., July 3.

The "Nantucket" sailed from Rouen, France, on July 12, and moored just below the Tower Bridge, London, on July 15.

While at London all quarantined cadets were given liberty on the same footing as the rest. Mr. L. B. Claircourt of the American Y. M. C. A. made arrangements for the cadets to see the principal objects of interest in the city. The cadets also visited the British Empire Exhibition where the machinery building afforded opportunity for acquiring much information of particular value to the engineers.

While at London I was invited by Philip H. Devitt, Esq., to visit the Nautical College, Pangbourne, about 25 miles above London on the Thames, of which school Messrs. Devitt and Moore, 84 Leadenhall Street, London, E. C. 3, are Managers, and Commander A. F. G. Tracy, R. N., Superintendent. I visited this school on June 21. These gentlemen have a very efficient plant, operated by private enterprise, but at the present time they have no schoolship. In 1921, they had a schoolship, the "St. George," which was at Plymouth, England, during the visit of the "Nantucket." This vessel had formerly been a large auxiliary yacht and was not suitable for the purpose besides being very expensive to operate with accommodations for only about half of the cadets.

The "Nantucket" sailed from London on July 26 and arrived at Hull the next afternoon.

Mr. John H. Grout, U. S. Consul at Hull, called on board as did also a Committee of Arrangements. It was decided that at 9 A.M., July 31, the "Nantucket" would proceed down the river to Immingham Creek to take part in the ceremony of laying the cornerstone of the monument which is to commemorate the original place and time of departure of the Pilgrim Fathers from Hull for Holland in 1609.

On July 30, the U. S. S. "Dale," Commander W. F. Halsey, U. S. Navy, arrived in the same dock as the "Nantucket." Calls were exchanged and it was arranged that the party from the "Dale" would take passage in the "Nantucket" for Immingham Creek.

Arrangements had been made by the Committee for the entertainment of the cadets by giving them passes to the theaters and by giving them a tea and dance following a baseball game between two teams from the "Nantucket" on July 30.

On July 31, the "Nantucket" proceeded to Immingham with members of the Committee and a large party of ladies and gentlemen from Hull on board. A band of small lads from the Sailors' Orphans Homes at Hull enlivened the occasion. Our reception at the City Hall in Hull the same evening was most cordial and all that could be desired. Our Consul, Mr. John H. Grout, made an address and read a cable message from His Excellency Governor Channing H. Cox expressing regret that he could not be present on this occasion.

The "Nantucket" proceeded from Hull on August 1, to Gibraltar where she arrived in the afternoon, August 9. A strong head wind was encountered coming down the English Channel, which was followed by a fog, then light head winds, but finally it came out fair and strong until in the vicinity of Cape St. Vincent in the forenoon of the 8th when the wind shifted and was soon blowing very strong from E. by S., nearly ahead, and soon increased to half a gale with a heavy sea which reduced the speed of the ship from 9 to 2.5 knots. At about 10 P.M., August 8, anchored at Jeramia's Anchorage in the lee of Cape Spartel to await a favorable change in the weather. At 9 A.M., August 9, proceeded to Gibraltar, conditions being unfavorable for touching at Tangier.

The "Nantucket" left Gibraltar on August 16, and arrived at Funchal, Madeira, on August 19.

The "Nantucket" sailed from Funchal on August 23, and anchored at St. George's Bermuda, at 8 A.M., September 7.

During the passage from Funchal to Bermuda, the study schedule was carried out morning and afternoon, the weather being very suitable for this purpose. Approaching Bermuda, squally weather with rain showed the proximity of storms, reports of which had been received by radio, and it was deemed advisable to touch at Bermuda for coal.

The ship left Bermuda on September 9, and arrived at Provincetown, Mass., about 1.30 A.M., September 13, 1924.

At 8 A.M., September 20, the "Nantucket" proceeded from Provincetown to Boston where she anchored at 1.30 P.M.

Seamanship.

During the summer the cadets of the 3rd and 4th classes were given instruction in making bends, hitches, knotting and splicing; in the names of the parts of the ship, her tackle, gear and equipment, such as spars, sails, anchors, chains; they had work aloft, loosing, furling, making and taking in sail; the

practical use of the lead, standing lookout on deck and aloft, swimming, rowing and sailing in the ship's boats, besides the routine work of chipping, scraping and painting for the preservation of the ship's hull and fittings.

The cadets of the 1st and 2nd classes, in addition to the above, were given instruction in the duties and responsibilities of watch officers and petty officers, standing watch as officer of the Watch, carrying out the ship's routine at sea and in port, duty as quartermasters and as boatswain's mates.

Navigation.

The cadets of the 1st and 2nd classes commenced their course of instruction in practical navigation on the way to Washington with practice in laying courses, taking bearings and plotting the positions on the chart, which practice was continued throughout the cruise.

After the ship left Norfolk work was begun on Nautical Astronomy, the cadets working out their own sights and turning them in for correction.

In the morning watch and in the first dog watch the Officer of the Watch was required to take an azimuth which was compared with the Navigator's observation. In inland waters and while coasting, instruction was given in taking horizontal sextant angles and plotting with Three-Arm Protractor, plotting the ship's position with vertical sextant angles and the bearing of a known object, using Captain Lecky's Off Shore Distance Tables, and by two bearings of the same object and the run in the interval. Instruction was also given in the use of the sounding machine.

The 2nd class cadets required additional instruction in all subjects as they had not had the theory during the winter term as the 1st class had.

Steam.

Cadets of the 1st and 2nd Engineer Classes were instructed in the principles of internal combustion engines, including Diesel types, practical engineering calculations, the use of the indicator, and the means of handling various possible disarrangements of machinery and other emergency measures.

Practical instruction consisted in doing all the work of the engine department while in port and under way under the supervision of the Engineer, Officers and Petty Officers, involving firing, watertending, oiling and throttle watch while under way, and firing and evaporator operation in port, in addition to doing the routine work on boilers and machinery and assisting at or doing all repair work, which was considerable. During the fall recess they laid up all machinery.

Cadets of the 3rd and 4th classes were instructed in the general layout of marine steam plants of simple types, and the functions of all the necessary appliances. Their practical work consisted of passing coal and assisting with the routine work in port.

Itinerary of the "Nantucket," Cruise of 1924.

Ports.	Left.	Arrived.	Distance (Miles).
Boston-Washington	May 13	May 17	673
Washington-Norfolk	May 23	May 24	183
Norfolk-Ponta Delgada, Azores	May 29	June 11	2,432
Ponta Delgada-Queenstown, Ireland	June 15	June 22	1,151
Queenstown-Falmouth, England	June 26	June 27	217
Falmouth-Rouen, France	July 2	July 3	272
Rouen-London, England	July 12	July 15	265
London-Hull, England	July 26	July 27	233
Hull-Gibraltar	Aug. 1	Aug. 9	1,544
Gibraltar-Funchal, Madeira	Aug. 16	Aug. 19	626
Funchal-Bermuda	Aug. 23	Sept. 7	2,549
Bermuda-Provincetown	Sept. 9	Sept. 13	771
Provincetown-Boston	Sept. 20	Sept. 20	48
	-	-	10,964

Officers and Instructors.

The present officers and instructors of the school are as follows:

Armistead Rust, Captain, U. S. N., Retired, Superintendent and commanding officer.
John J. McCracken, Lieutenant Commander, U. S. N., Retired, Executive officer.
John W. Thompson (graduate M. N. S.), Navigator.
Norman E. Merrill (graduate M. N. S.), Watch officer.
Llewellyn Roberts (graduate M. N. S.), Watch officer.
Ervin L. Kelley, Lieutenant, U. S. N. R. F. (graduate M. N. S.), Chief engineer.
Charles E. Meek, Assistant engineer.
Arthur L. Wheeler, Instructor in mathematics.
Stuart N. Gardner, Medical officer.
Charles Parker, Paymaster and Captain's clerk.

Appointments.

Name.	Title.	Date.
Francis T. Bowles	Commissioner	July 1, 1924
Dr. John Rock	Surgeon	Jan. 1, 1924
Dr. Stuart N. Gardner	Surgeon	May 1, 1924
Llewellyn Roberts	Watch officer	May 6, 1924
Arthur L. Wheeler	Instructor in mathematics	Oct. 1, 1924
Lieut. Comd'r John J. McCracken, U. S. N., retired	Executive officer	Nov. 1, 1924

Resignations.

Dr. Fletcher H. Colby	Surgeon	Dec. 31, 1923
Arthur L. Wheeler	Instructor in mathematics	Mar. 30, 1924
Dr. John Rock	Surgeon	Apr. 30, 1924
Chief Boatswain Timothy Sullivan U. S. N., retired	Watch officer	May 5, 1924
Comd'r Howard G. Copeland U. S. N. R. F.	Executive officer	Oct. 31, 1924

Cadet Officers of the Massachusetts Nautical School.

Summer Term, 1924.

John F. Doyle, *Cadet Master.*

Navigation.

Sydney Blackledge . . . . . *Cadet First Officer.*
Robert S. Gale . . . . . *Cadet Second Officer.*
Lawrence W. Croteau . . . . . *Cadet Third Officer.*

Engineering.

Earle B. Dowing . . . . . *Cadet Engineer.*
H. Carleton Gifford, Jr. . . . . *Cadet First Assistant Engineer.*
Albert R. Henreckson . . . . . *Cadet Second Assistant Engineer.*

Petty Officers.

(*Deck.*)

E. Emerson Evans.
Roger A. Baker.
Paul L. Litchfield.
Frank S. Dowd.
Andrew C. Smurrage.
Edward C. Pilote.
Charles L. Lyon.
Henry A. Lee.

(*Engineering.*)

Edgar H. Peters, *Cadet Machinist.*
James E. Slattery, *Cadet Electrician.*

WINTER TERM, 1924–25.

Paul L. Litchfield, *Cadet Master.*

Navigation.

Frank S. Dowd . . . . . *Cadet First Officer.*
Richard L. Horne . . . . . *Cadet Second Officer.*
James F. Donovan . . . . . *Cadet Third Officer.*

Engineering.

Laurence B. Swann . . . . . *Cadet Engineer.*
Harold W. Bradbury . . . . . *Cadet First Assistant Engineer.*
William R. Fallon . . . . . *Cadet Second Assistant Engineer.*

Petty Officers.

(*Deck.*)

Edward C. Pilote.
Douglas MacMaster.
Harvey J. Reynolds.
Henry A. Lee.
David Vincola.
Arthur J. Carnes.
Joseph F. Shirt.
Thomas A. Jacobs.

(*Engineering.*)

John G. Moore, *Cadet Machinist.*
Andrew C. Smurrage, *Cadet Electrician.*

CADETS ADMITTED, GRADUATED AND HONORABLY DISCHARGED, FROM 1893 to 1924, INCLUSIVE.

	Admitted.	Graduated.			Honorably discharged.	Withdrawn, dismissed, dropped.	Number connected with the school.
		Seamanship Class.	Engineer Class.	Totals.			
1893	141	–	–	–	29	24	138
1894	63	–	–	–	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	133
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	7	186
1921	70	35	17	52	9	7	184
1922	74	29	21	50	19	8	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
Totals	2,312	593	549	1,142	625	425	–

Membership of the School.

Graduating Class, March, 1924.

* Received 85 per cent, or over, of the academic multiple, and entitled to wear gold star on coat collar.

Seamanship Division.

***Masse, Joseph H.**	Everett.
***Jacobs, William H.**	Gloucester.
Ellis, Edward B.	Walpole.
Jernberg, Ralph E.	Worcester.
Malen, J. William	Gloucester.
Hull, Raymond M.	Leominster.
Murphy, Daniel E.	Dorchester.
Walsh, Arthur J.	Watertown.
Gardner, Charles D.	Gloucester.
Baker, William N.	Quincy.
Raynes, Albion A.	Melrose.
Laverty, John F.	Quincy.
O'Brien, James W.	Springfield.
Thureson, Nils E.	Dorchester.

Engineering Division.

***Lewis, Percy J.**	West Lynn.
***Langille, Ralph L.**	South Boston.
***Allen, Aubrey C.**	Marlborough.
***MacDonald, James A.**	Tewksbury.
Joseph, J. Malcolm	Dorchester.
Capen, Ellery H.	New Bedford.
Martin, Edmond P.	Lynn.
Calhoun, James A.	West Somerville.
Harrington, Webster F., Jr.	South Lincoln.
Anderson, Paul W.	North Easton.
Gould, Horton D.	Amesbury.
Libby, Leo J.	Marlborough.

Graduating Class, September, 1924.

Seamanship Division.

***Blackledge, Sydney**	Pottersville.
Doyle, John F.	Holyoke.
Gale, Robert S.	Watertown.
Evans, E. Emerson	Framingham.
Baker, Roger A.	Manchester.
Croteau, Lawrence W.	Manchester.
Choquette, George A.	Lowell.
Everette, Frederick E.	Boston.
Murphy, Robert H.	Barnstable.

Engineering Division.

Henreckson, Albert R.	Sharon.
Downing, Earle B.	East Lynn.
Slattery, James E.	Westborough.
Moran, William J.	Millis.
Gifford, H. Carleton, Jr.	Marshfield.
Peters, Edgar H.	North Adams.
Seed, Daniel C.	Adams.
Gilchrist, Norman S.	Cambridge.
Evans, Edwin S.	East Walpole.

Class to Graduate March, 1925.

Seamanship Division.

***Litchfield, Paul L.**	Dracut.
***Dowd, Frank S.**	Fall River.
***Pilote, Edward C.**	Whitman.
***Horne, Richard L.**	Gloucester.
Carnes, Arthur J.	Malden.
Reynolds, Harvey J., Jr.	Duxbury.

Donovan, James F.	Lawrence.
MacMaster, Douglas	Cambridge.
Rich, Albert B.	Hingham.
Lee, Henry A.	Beachmont.
McGourthy, David G.	Roxbury.
Crossman, Malcolm E.	Taunton.

Engineering Division.

***Fallon, William R.**	Dorchester.
Swann, Laurence B.	North Adams.
Smith, Adelbert H.	Dracut.
Bradbury, Harold W.	Cliftondale.
Smurrage, Andrew C.	Gloucester.
Aaron, Richard G.	Allston.
Cummings, Houghton L.	Winchendon.
Dunn, Sidney P.	Gloucester.
MacDiarmid, Joseph W.	Mansfield.
Moore, John G.	Roxbury.
Stewart, Rupert K.	Melrose Highlands.
Murphy, Henry W.	Avon.
Reagan, John E.	Fall River.

Class to Graduate September, 1925.

Seamanship Division.

Vincola, David	East Boston.
Shirt, Joseph F.	Fall River.
Andrew, Leroy N.	Lynn.
Nerney, Harold V.	Attleboro.
Walsh, James E.	Watertown.
Piekos, Stanley F.	Salem.
Jacobs, Thomas A.	Amesbury.
Bradford, Henry K.	Saugus.
Vaughan, Rodman W.	Middleborough.
Gill, Stephen T.	North Eastham.
Nelson, George W.	Brockton.
Smith, Leslie L.	Worcester.
Scully, Joseph A.	Rockland.
Binney, John P.	Milford.
Rouse, Winslow M.	Roxbury.
Mann, Harold M.	Boston.

Engineering Division.

***Fellows, Paul W.**	Reading.
***Wyman, Theodore C.**	Hopkinton.
Hilbourne, Acer N.	Cliftondale.
Barnicle, Joseph D.	Waltham.
Nee, John E.	Concord Junction.
Woodlock, John J.	Mansfield.
Johnson, Folke C.	North Easton.
Gateley, Joseph J.	Roslindale.
Merrill, Delmont N., Jr.	Waltham.
Kretchmar, Osmond C.	Malden.
Fairbanks, Richard W.	Amesbury.
Holmes, Robert B.	Lowell.

Class to Graduate March, 1926.

Wolfe, Oliver P., Jr.	Boston.
Fenerty, Lawrence D.	Scituate.
Conroy, Charles T.	Vineyard Haven.
Young, Harry L.	Attleboro.
Ames, Wendell G.	Medford.
Vaux, Earle B.	Swampscott.
Weston, Harold A.	Salem.
Perry, Robert X.	South Boston.
Kimball, Charles E. L.	Quincy.
O'Donovan, Thomas E.	Dorchester.

Gilday, William M.	Amesbury.
Rooney, John A.	South Boston.
Halliden, William A.	South Boston.
Crouse, Walton C.	Lynn.
Pilkington, Elwin A.	Mansfield.
Hirst, Paul G.	Amesbury.
Pilote, Joseph A.	Whitman.
Scully, Nicholas D., Jr.	Dorchester.
Preble, Donald A.	Quincy.
Dunbar, Boyd	Hyde Park.
Jones, Marshall W.	Wellesley Hills.
Kelly, Edward L.	Middleborough.
Sahlin, Harold H.	West Somerville.
Harty, John F.	Charlestown.
Bailey, Carlton L.	Newton Highlands.
Carlos, Clarence D.	Provincetown.
Perham, Whitman C.	West Roxbury.

Class to Graduate September, 1926.

(Alphabetically arranged.)

Ashton, John B.	Millbury.
Bradford, William A., Jr.	Saugus.
Coburn, Clyde R.	Hyde Park.
Corkhill, Albert A.	Lawrence.
Coyle, Edward R.	Taunton.
Dunlap, Josiah B.	Plymouth.
Fahey, James J.	South Boston.
Fallis, A. William	Atlantic.
Fordan, John T.	Boston.
Francis, John H.	Avon.
Gagnon, Adjutor	Fall River.
Gilbert, Mark L., Jr.	Fairhaven.
Golding, Clarence G.	Everett.
Guy, George H.	Saugus.
Hackett, Paul F.	Fall River.
Hassett, H. Joseph	Fitchburg.
Hatch, Aylmer R.	Ware.
Hersey, Elwyn W.	North Weymouth.
Hoitt, Frederick D.	West Somerville.
Hooper, Herbert	Springfield.
Hudson, George F.	Dorchester.
Lewerenz, Ernest A. M.	Roxbury.
Loring, John S.	Shrewsbury.
MacBrayne, Thurlow	Lowell.
Merchant, Harry W.	New Bedford.
Murphy, James A.	Quincy.
Preston, George J.	Weymouth.
Queen, Norman L.	Needham Heights.
Reed, Lloyd K.	Shrewsbury.
Rogers, Elliott G.	Everett.
Rounds, Richard T.	Billerica.
Scully, William J.	Dorchester.
Taapken, John L.	West Somerville.
Wirtanen, Frank E.	West Barnstable.
Woodaman, Benjamin R.	West Tisbury.

Register of Graduates.

Officers in the Merchant Marine.

[* Enrolled in the United States Naval Reserve during the World War.]

Year.	Name.	Residence.	Position.	Vessel or Service.
1898	Joseph E. Sheedy	Reading	Vice-president	United States Shipping Board, London, England.
1909	Robert S. Sparrow	Eastham	Assistant General agent	A. H. Bull Line.
1909	*John J. Coholan	South Boston	Marine superintendent	Galveston, Texas.
1911	Norris T. Ela	Douglas	Marine superintendent	Atlantic, Gulf, and Pacific Corp., Baltimore, Md.
1903	Nicholas J. Kane	Whitman	Port superintendent	American-Hawaiian Line.
1911	*William M. Gorham	Hawaii	Assistant marine superintendent	Steamship Co., Port Allen, Kauai, Hawaii.
1919	Richard R. McNulty	Gloucester	Assistant marine superintendent	Mallory Transport Lines.
1899	Edward G. Smith	Boston	Port captain	Freeport Sulphur Co.
1901	Theodore H. Bicknell	Melrose	Port captain	Union Sulphur Company.
1905	*Walter L. Smith	Ashburnham	Port captain	United States Shipping Board, Baltimore, Md.
1920	Francis X. Landrey	Roslindale	Assistant port captain	Trans-Marine Corp., Port Newark, N. J.
1913	*Arthur G. Burt	Whitman	Assistant manager	United States Shipping Board, New York, N. Y.
1918	Raymond E. Saunders	Somerville	In charge of Tampa office	Florida Railroad and Navigation Corp., Everglades, Florida.
1894	James E. Reardon	Roxbury	Captain	"Lake Frugality."
1894	Henry G. Carpenter	Roxbury	Captain	"William M. Green."
1894	Albert L. Warner	Wollaston	Captain	"Lake Gardner."
1895	Walter J. Healey	Worcester	Captain	"E. T. Bedford."
1895	Geo. L. P. Covell	Roxbury	Captain	"Henry S. Groves."
1895	Horace W. Folger	Wilmington	Captain	Boston Pilot Boat Service.
1896	*Wm. N. P. Baker	Brooklyn	Captain	"Argosy."
1896	Alvin W. Haynes	Somerville	Captain	"Colon."
1896	Henry R. Bodge	Wollaston	Captain	– –
1896	Geo. R. Lauriat	Ft. Moultrie	Captain	"Gen. Brannan."
1897	H. W. G. Atkins	Reading	Captain	– –
1897	*Frederick W. Jones	Winchester	Captain	United States Shipping Board, Washington, D. C.
1897	Mina Dailey	Rockport	Captain	"Harwood."
1898	*Louis E. Congdon	Boston	Captain	"Swift Eagle."
1898	*Carl E. A. Anderson	Brooklyn	Captain	"Arizonan."
1898	Eldon G. Freeman	Whitman	Captain	Chief Pilot, "San Francisco."
1899	George F. Waite	Winthrop	Captain	United States Shipping Board.
1899	*Walter S. Lynch	Chelsea	Captain	– –
1900	*James S. Howes	Pawtucket	Captain	"Minnesotan."
1900	*Winthrop R. Cutts	Stoneham	Captain	– –
1900	*E. Newton Parker	Greenfield	Captain	– –
1900	William B. Knight	Bellingham	Captain	"Catherine D."
1900	Alfred M. Cummings	Worcester	Captain	"Lancaster."
1900	I. Clarence Bailey	Kingston	Captain	Boston Pilot Boat Service.
1901	Charles D. Harrington	Boston	Captain	"Joseph R. Parrott."
1901	Robert W. Tucker	Kendal Green	Captain	"Panaman."
1902	*A. Russell Cushing	Allston	Captain	– –
1902	*Arthur T. Luther	Swansea	Captain	Pilot, Panama Canal.
1902	Osborn E. McKay	Sagamore	Captain	Pilot, Panama Canal.
1902	*Edwin J. Madden	Clifton, N. J.	Captain	"Blue Triangle."
1902	*Fred C. Seibert	Greenfield	Captain	"Mystic."
1903	Mark Woodbury	San Francisco	Captain	"Magunkook."
1903	Benj. O'Connell	Peabody	Captain	"Wheeling Mold."
1903	*Harry M. Bostwick	Northbridge	Captain	"Suspearco."
1904	*Andrew J. Iverson	Beverly	Captain	– –
1904	*Edward C. Roberts	No. Beverly	Captain	– –
1905	*Frederick S. Walker	Reading	Captain	"Everett."
1905	*Harold H. Gridley	Dorchester	Captain	"Darden."
1905	*James A. Crocker	Nahant	Captain	"F. R. Gordon."
1906	*William H. Lee	Malden	Captain	"Sagaporac."
1906	*George C. Bosson	Reading	Captain	"James S. Whitney."
1907	*Elmer B. Small	Reading	Captain	"Agwiworld."
1907	*William M. Gifford	Woods Hole	Captain	"Belleflower."
1907	Frazier L. Sears	E. Dennis	Captain	"Bramell Point."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1907	Frederick L. Gainard	Chelsea	Captain	Atlantic Coast Pilot.
1908	*Eugene P. Shevlin	East Boston	Captain	– –
1908	Chester B. Mellen	Quincy	Captain	– –
1908	*Edward S. Ells, Jr.	Haverhill	Captain	– –
1909	Harold C. Cooper	Worcester	Captain	"Polarine."
1909	*Carroll E. Higgins	Somerville	Captain	"Mount Carroll."
1909	*Eric E. Winquist	Mattapan	Captain	– –
1909	William A. Sillars	Danvers	Captain	"L. J. Drake."
1910	*Chester E. Morris	Brooklyn	Captain	– –
1911	*Wesley F. Besse	Somerville	Captain	"De Soto."
1911	*Harold S. Dexter	Mattapoisett	Captain	– –
1911	*Henry O. K. Hanson	Neponset	Captain	– –
1911	*Raymond C. Vose	Norfolk	Captain	"Dauperata."
1911	*Eugene W. Miller	E. Saugus	Captain	"Western Glen."
1912	*Harold Ertel	Longmeadow	Captain	– –
1912	*Clarence L. Howard	Wellesley	Captain	– –
1912	Russell A. Eastman	Mattapoisett	Captain	"Rotarian."
1913	Philip J. Fanning	Baltimore	Captain	"Deer Lodge."
1913	*Everett O. Swinson	E. Gloucester	Captain	"Gen. Goethals."
1913	*Borden A. Tuell	New Bedford	Captain	"Jacona."
1913	*Ralph W. Dearborn	Mansfield	Captain	"Alloway."
1913	*John A. Maddock	Newburyport	Captain	– –
1913	Wilfred H. Senior	Dorchester	Captain	– –
1914	John L. Kirchner	Hinsdale	Captain	New York, New Haven & Hartford Railroad tugs.
1914	Nelson T. Nutter	Newburyport	Captain	"Chamblee."
1914	Samuel A. Gates	Malden	Captain	– –
1914	Samuel J. Lee	Roxbury	Captain	"West Loquassuck."
1915	Albert V. Jones	Fall River	Captain	"Pinthis."
1915	Charles N. Bamforth	Swampscott	Captain	– –
1915	*Leland M. Marshall	Allston	Captain	"Advance."
1915	Harold F. Craven	Lawrence	Captain	"Gulfland."
1915	*Charles E. Griffith	Cambridge	Captain	– –
1916	*William E. Lord	Springfield	Captain	"Major Wheeler."
1916	John A. Rylander	Springfield	Captain	"Steel Trader."
1916	Clayton W. Collins	Waquoit	Captain	"Baytown."
1917	Alan R. Barton	Winthrop	Captain	– –
1918	James E. Fraser	Boston	Captain	"San Jose."
1895	Harold W. Davis	Somerville	First officer	"Cottonwood."
1897	*Herbert P. Smith	Nantucket	First officer	– –
1898	*Harlowe Johnson	Mattapoisett	First officer	– –
1898	*Charles H. Kilmer	Somerville	First officer	"West Zeda."
1898	*James H. Willey	Santa Cruz	First officer	"West Ira."
1899	George W. Stetson	Somerville	First officer	"Sujerseyco."
1900	Clayton G. Parsons	Salem	First officer	"West Cape."
1902	*Arthur P. Hensen	Vallejo, Cal.	First officer	– –
1906	*Lewis B. Butler	Worcester	First officer	"Lake Fear."
1907	Philip B. Marcy	Brookline	First officer	"Ameland."
1908	*Ernest F. Robinson	Greenville	First officer	"Cleveland."
1911	*Charles C. Plummer	Cambridge	First officer	"Steadfast."
1912	*Herbert A. Burns	New Bedford	First officer	– –
1912	*Ralph E. Merithew	Haverhill	First officer	"Swift Eagle."
1912	*Kenneth E. Cahoon	W. Tisbury	First officer	"Aurora."
1912	*William H. O'Donoghue	Roxbury	First officer	– –
1912	*Joseph M. Daniel	Osterville	First officer	– –
1912	*Ellenwood Folger	Siasconset	First officer	"Benj. Brewster."
1912	*Albert H. Acorn, Jr.	Malden	First officer	"Corsica."
1913	James A. MacCabe	Osterville	First officer	– –
1913	*Philip H. Waldron	E. Milton	First officer	"Coahoma County."
1913	*Frederick L. Howland	So. Dartmouth	First officer	"Western Ally."
1913	*Waldon A. McIntire	E. Gloucester	First officer	"Martha Washington."
1914	Edward F. Murphy	Fall River	First officer	"Lewis Luckenbach."
1914	*Geoffrey C. O'Donoghue	Roxbury	First officer	"Cuba."
1914	*Gerard R. Crosby	Orleans	First officer	"Minnesotan."
1914	James A. Stowell	Walpole	First officer	"Yucatan."
1914	*F. Palmer Harrington	Malden	First officer	"Putnam."
1915	*Ralph S. Moore	New York	First officer	"Steel Mariner."
1915	*Charles H. Hurley, Jr.	Gardner	First officer	"Nevadan."
1915	*Arthur A. Hovgaard	Brookline	First officer	"West Raritans."
1915	Ronald B. Ford	Lawrence	First officer	"Yukon."
1915	*William C. Davenport	New Bedford	First officer	"Minnekahda."
1915	Earle D. Hammond	E. Mattapoisett	First officer	– –
1915	Edward R. Rhodes	Lowell	First officer	"Edward L. Doheny."
1915	*Herman S. Mayo	Provincetown	First officer	"Fairmont."
1916	*Peter J. Jakmauh	So. Boston	First officer	"West Inskip."
1916	*John T. Crowell, Jr.	Gloucester	First officer	"West Keene."
1916	*Richard H. Dunphe	Brockton	First officer	"Victorious."
1916	*Randall F. Elder	Brighton	First officer	"Eastern Crown."
1916	*J. Prescott Mahoney	W. Wareham	First officer	"Bristol."
1916	*Paul H. Browne	Roslindale	First officer	"Satartia."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1916	Harold R. Congdon	Somerville	First officer	"Amoloco."
1916	*Thomas B. Lufkin	Gloucester	First officer	"Katahdin."
1916	Charles A. Martell	Somerville	First officer	"Montgomery City."
1916	*Edwin T. Fletcher	Springfield	First officer	"Wheaton."
1917	Alton E. Borden	Fall River	First officer	– –
1917	Sydney L. MacLaughlin	Wollaston	First officer	"Reliance."
1917	Stanley F. Roberts	Springfield	First officer	– –
1917	*Russell W. Thresher	Southbridge	First officer	"Bantu."
1917	A. Henry Rowe	Roslindale	First officer	"Kisnop."
1917	Ivan Freeman	E. Orleans	First officer	"Ossaban."
1917	Luther C. Kingsbury	Wellesley	First officer	"Riverside Bridge."
1918	Hartley Hoffses	Quincy	First officer	"Hickman."
1918	Alden L. Strout	Boston	First officer	"Excelsior."
1918	Max Distelman	Newburyport	First officer	"Lackawanna Bridge."
1918	William S. Reagh	Wakefield	First officer	"Steel Traveler."
1918	G. Minard Cunningham	Lawrence	First officer	– –
1918	Jacob Popkin	Malden	First officer	"Yuka."
1918	Leonard C. Walen	Gloucester	First officer	"Deuel."
1918	Ira D. Dean	So. Natick	First officer	"Limon."
1919	Harry C. Lord	Springfield	First officer	– –
1919	Harold T. Longmore	Stoneham	First officer	"Munamar."
1919	Paul Stone	Pigeon Cove	First officer	"Western Glen."
1919	Charles F. Bossom	Arlington	First officer	"Macerata."
1920	*J. Francis Devlin	Salem	First officer	"President Garfield."
1922	Vincent F. J. Hancock	Fall River	First officer	"Frank A. Morey."
1894	Alfred J. O'Leary	Worcester	Second officer	"Adacia."
1902	*George Castle	Lynn	Second officer	"Lake Fanning."
1904	Leslie F. Holmes	Whitman	Second officer	– –
1904	*Charles H. Stoddard	Brookline	Second officer	– –
1906	John Ruyter	Rochester	Second officer	"Lake Ellio."
1907	Herbert Garity	Boston	Second officer	"Dorothy."
1910	Franklin K. Tyler	Beachmont	Second officer	"Saramacca."
1911	*Angelo A. Aicardi	So. Boston	Second officer	– –
1912	Harold L. Winslow	Canton	Second officer	"America."
1913	Fred'k A. Stainforth	Winthrop	Second officer	"Panaman."
1913	John W. Crocker	Nahant	Second officer	"Western Spirit."
1914	*Joseph L. Turner	Amherst	Second officer	– –
1914	Ten Eyck H. Reed	So. Framingham	Second officer	"West Loquassuck."
1914	*William H. Fogarty	Dorchester	Second officer	"Afoundria."
1914	Laurence L. Horton	Eastham	Second officer	"Prince Frederick Henry."
1914	David H. Swinson	E. Gloucester	Second officer	"Gen. W. C. Gorgas."
1915	*Russell C. Damon	Hingham	Second officer	"Lake Ellsbury."
1915	*Curtis C. Fales	Westborough	Second officer	"Malabar."
1915	*Charles P. Jacobson	Everett	Second officer	"Oskawa."
1915	Sidney F. Nichols	Worcester	Second officer	"Malden."
1915	Russell L. Saunders	Allston	Second officer	– –
1916	*Frank M. Perrin	Worcester	Second officer	– –
1916	*Harold S. Ireland	Somerville	Second officer	"Eclipse."
1916	Clifford E. Stanley	Salem	Second officer	United States Shipping Board.
1916	Fred E. Wilcox	Indian Orchard	Second officer	– –
1917	*Percie A. Crosby	Everett	Second officer	"Chester Valley."
1917	*Earl S. Francis	Athol	Second officer	– –
1917	*William M. Preston	Beverly	Second officer	– –
1917	Charles F. Huffman	W. Somerville	Second officer	"West Hambrie."
1917	*Frank M. Moore	Forest Hills	Second officer	"Malden."
1917	*Bradford S. Wilson	Brookline	Second officer	– –
1917	Donald MacWhinnie	New Bedford	Second officer	"Sinsinawa."
1917	*Herbert W. Sussman	Dorchester	Second officer	"Republic."
1917	David M. McLaren	Dedham	Second officer	"Minnekahda."
1918	Raphael W. Hill	Provincetown	Second officer	"Agwismith."
1918	Arthur B. Gibbs	Nantucket	Second officer	"Houston."
1918	Geo. R. Stockbridge	Wellesley	Second officer	"Anacortes."
1918	Wilbur W. Woods	Provincetown	Second officer	"Elmsport."
1918	James R. Moore	Lexington	Second officer	"Lake Sunapee."
1918	James J. Crowley	No. Abington	Second officer	– –
1918	James H. Lowry	Canton	Second officer	"Lake Ellesmere."
1918	Gerald K. Sanborn	Lawrence	Second officer	– –
1919	Richard F. Nickerson	So. Duxbury	Second officer	"Henry Groves."
1919	John J. Mahoney	Revere	Second officer	"Swift Wind."
1919	Paul E. Purdy	Everett	Second officer	"Oronoke."
1919	William B. Studley	Fairhaven	Second officer	"Steel Exporter."
1919	Harry E. Hopkins	No. Eastham	Second officer	"William Green."
1919	*Gordon A. Littlefield	Cambridge	Second officer	"Robert E. Hopkins."
1919	Arthur G. Morrill	Melrose	Second officer	– –
1919	Walter W. Jenness	Malden	Second officer	"Durango."
1919	William H. Moulton	Bedford	Second officer	"F. J. Luckenbach."
1919	Charles W. Torrey	Rockland	Second officer	"Ohioan."
1919	Charles E. Gilman	Somerville	Second officer	"Elkwater."
1919	Francis J. Harrington	Revere	Second officer	"Swift Eagle."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1920	George P. Lord	Salem	Second officer	"Wabash."
1920	Wm. S. Tyrrell	Cambridge	Second officer	"O. T. Waring."
1920	Francis E. Donnelly	Roslindale	Second officer	"Jonancy."
1920	William G. Watt	Chicago, Ill.	Second officer	"Monticello."
1920	*Oswald J. Griffin	Fall River	Second officer	"Imlay."
1920	Erwin F. Colburn	Somerville	Second officer	"San Jose."
1921	Theodore W. Marvin	Roxbury	Second officer	"Tuscaloosa."
1922	Carroll P. Burgess	Bournedale	Second officer	"Swift Scout."
1923	John E. Handran	Rockport	Second officer	"Ardmore."
1905	*Laurence G. Kelley	Taunton	Third officer	– –
1912	Francis J. McGowan	Somerville	Third officer	"Lake Grampus."
1913	*Oliver P. Shattuck	West Acton	Third officer	"Reliance."
1916	*Albert Bianchi	Worcester	Third officer	– –
1916	*Howard U. Chase	Nantucket	Third officer	– –
1916	*Byron H. Paine	New Bedford	Third officer	"Minnekahda."
1918	*Edgar G. Glines	Beverly	Third officer	"Roanoke."
1918	Raymond P. Abbott	Newburyport	Third officer	"Sinsinawa."
1919	Frederick T. DeLeskey	E. Boston	Third officer	"Corsica."
1919	Jack A. Fraser	Lowell	Third officer	"Missourian."
1919	Roy D. Hall	Dennis	Third officer	"Swift Light."
1919	John W. Donahoe	Dorchester	Third officer	"Lake Larabee."
1919	*Harold B. Wilkinson	Lynn	Third officer	"Lake Galando."
1919	*Nelson E. Gardiner	Fitchburg	Third officer	"West Ceba."
1919	Alfred A. Needham	Manchester	Third officer	"Ardena."
1919	George A. Henderson	Brighton	Third officer	– –
1919	Robert S. O'Brien	Malden	Third officer	"Carlton."
1919	Ernest B. Waters	Nahant	Third officer	"Tivives."
1920	Daniel J. Coughlin	Lowell	Third officer	– –
1920	*Fred M. Full, Jr.	Rockport	Third officer	– –
1920	*Clarence A. Bartlett	Lowell	Third officer	"Western Comet."
1920	*Noble M. Hartley	Winthrop	Third officer	"Lake Fagundas."
1920	*Laurence R. Jacques	Springfield	Third officer	"Mevania."
1920	*Fred C. B. Steinmetz	Springfield	Third officer	"Winona."
1920	*Roger W. Osborne	E. Lynn	Third officer	"Gulfland."
1920	Theodore Collins	Milton	Third officer	"Springfield."
1920	*Joseph G. Dean	Springfield	Third officer	"Astmahco."
1920	*Chas. A. Freeman, Jr.	Taunton	Third officer	"Lake Foch."
1920	Roger W. Clarke	Auburndale	Third officer	"Minnesota."
1920	*Richard B. Taylor	W. Somerville	Third officer	"Romulus."
1920	*Ralph E. Tilton	Fitchburg	Third officer	"Crawl Keys."
1920	John F. Hannan	Mattapan	Third officer	"Egremont."
1920	Charles R. Clarke	Lynn	Third officer	"Minnesotan."
1920	Alex. M. S. Paddock	Cambridge	Third officer	"Morristown."
1920	Raymond A. Bowen	Gloucester	Third officer	"Red Mountain."
1920	*David F. Atwood	W. Falmouth	Third officer	"Lucian."
1921	Roger J. O'Sullivan	W. Medford	Third officer	"Eastern Blade."
1921	John A. Robertson	Boston	Third officer	"Pennsylvanian."
1921	Robert E. Taylor	Boston	Third officer	"Derbyline."
1921	J. Blaisdell Wells	Somerville	Third officer	"Nevadan."
1921	Charles G. Foster	E. Brewster	Third officer	"Ipswich."
1921	George A. Perkins	No. Carver	Third officer	– –
1921	Lawrence T. Sullivan	East Boston	Third officer	– –
1921	Philip W. Atkinson	Fitchburg	Third officer	– –
1921	George J. Lavin	Melrose	Third officer	"Tuxpanoil."
1922	Edward C. Beatson	Ludlow	Third officer	– –
1922	Edwin S. Baker	Manchester	Third officer	"Cold Harbor."
1922	John F. Mulvey	Roslindale	Third officer	"Millinocket."
1922	Webster G. Farrell	Dorchester	Third officer	"Esparta."
1922	William C. Mahoney	Somerville	Third officer	"O. T. Waring."
1922	George Worth	Cambridge	Third officer	"Virginian."
1922	Arthur O. Brady	Rockland	Third officer	"Missourian."
1922	Kenneth C. Mayo	Provincetown	Third officer	"Manitowac."
1922	Robert M. Pierce	Rockport	Third officer	"Ohioan."
1922	Scranton H. Redfield	Lynn	Third officer	"Deuel."
1923	William T. Corfield	Roxbury	Third officer	"C. A. Snyder."
1923	Roy W. Chamberlain	E. Lynn	Third officer	"President Adams."
1923	John E. Wade	Amesbury	Third officer	"Oneida."
1924	Arthur J. Walsh	Watertown	Third officer	"Everett."
1924	Edward B. Ellis	Walpole	Third officer	"Montpelier."
1918	Harold S. Damon	Plymouth	Junior officer	"George Washington."
1919	Sherman W. Reed	Lexington	Fourth officer	"Leviathan."
1915	David P. Delano	Orleans	Harbor Master	Clyde and Mallory Lines.
1900	*Hollis M. Cornwall	Melrose	Division superintendent	Merchants and Miners Transportation Co.
1907	Paul R. Smith	Brooklyn	Superintending Engineer	Kerr Steamship Co.
1900	Norris R. Sibley	Worcester	Manager, New York District	London Steam Turbine Company.
1905	Charles F. Tarr	Taunton	Port engineer	United States Shipping Board, Philadelphia, Pa.

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1895	Michael D. Sullivan	San Francisco	Chief engineer	"Rosecrans."
1896	*James H. B. Meehan	Lowell	Chief engineer	– –
1898	William E. Ballsdon	Neponset	Chief engineer	"Herman Winter."
1898	Wilbur S. Lamont	Leominster	Chief engineer	"West Hargrave."
1898	*Everett S. Ransom	E. Mattapoisett	Chief engineer	– –
1898	Charles E. Rowe	Lynn	Chief engineer	– –
1898	*John C. Ganser	Jersey City	Chief engineer	"Bird City."
1900	*Charles E. Lowe	Roxbury	Chief engineer	"Eastern Trader."
1900	Elmer P. Butterworth	Port Arthur	Chief engineer	"Gulfking."
1900	William Glover	Wilmington	Chief engineer	"West Celina."
1901	*Eugene I. K. Murphy	New York	Chief engineer	– –
1901	*Robert A. Patterson	Cambridge	Chief engineer	– –
1902	Daniel F. Butler	Waltham	Chief engineer	"Gloria."
1903	*James S. McGarry	New York	Chief engineer	"El Alba."
1903	*Edmund E. Powers	Cambridge	Chief engineer	"Texarkana."
1904	Charles W. Bumpus	Wareham	Chief engineer	"City of Gloucester."
1904	*Cecil L. McIntyre	Ashmont	Chief engineer	"Olen."
1905	*Fred G. Carlton	Maynard	Chief engineer	"H. D. Morse."
1906	*Augustus C. Caldwell	Dorchester	Chief engineer	– –
1906	Victor M. Foster	Revere	Chief engineer	– –
1906	Bradford N. A. Gladding	Newport	Chief engineer	– –
1906	*Arthur G. Burbank	Carver	Chief engineer	– –
1907	*George H. Stickney	Watertown	Chief engineer	– –
1907	*Samuel P. Osgood	Middleborough	Chief engineer	"Bessemer City."
1907	*Archie E. Bragg	New Bedford	Chief engineer	– –
1908	*Thomas B. Pellett	Worcester	Chief engineer	– –
1909	*Everett B. Ward	New York	Chief engineer	– –
1909	William A. Sullivan	E. Boston	Chief engineer	Mine sweeper.
1909	*Leo A. Keating	Natick	Chief engineer	"F. J. Luckenbach."
1909	Richard K. Henry	Pittsfield	Chief engineer	"Silverbrook."
1909	*Samuel J. Miller	Fall River	Chief engineer	"Lehigh."
1910	George W. Sibley	Worcester	Chief engineer	"Geo. W. Barnes."
1910	R. Wilbur Anderson	Mattapan	Chief engineer	"Passaic Bridge."
1911	*Robert F. Phinney	Mattapan	Chief engineer	"Matinicock."
1911	Harvey M. Thorndike	Cliftondale	Chief engineer	"El Capitan."
1912	William A. Hamilton	Cliftondale	Chief engineer	– –
1912	Richard K. O'Connell	North Easton	Chief engineer	"Nelson."
1912	*John M. Marks	Gloucester	Chief engineer	"Burnwell."
1912	*Richard J. Cavanaugh	New Bedford	Chief engineer	"Agwipond."
1915	*Philip J. Durney	Gloucester	Chief engineer	"Gloucester."
1916	*Percy C. Stevens	Avon	Chief engineer	– –
1917	*John D. Noonan	Mansfield	Chief engineer	"Yaklok."
1918	John R. Donlin	Medford	Chief engineer	– –
1897	Augustus T. Holmes	Ipswich	First assistant engineer	"J. M. Guffy."
1898	Frank P. Killion	Honolulu	First assistant engineer	"Mauna Loa."
1898	Charles E. Perry	Hyde Park	First assistant engineer	"Bibbco."
1900	Earle P. Marshall	No. Easton	First assistant engineer	"Lake Buckeye."
1901	*Ernest E. Sackett	Lynn	First assistant engineer	"Wampum."
1902	Augustus W. Hart	No. Truro	First assistant engineer	– –
1904	*Benj. L. Welch	Lynn	First assistant engineer	"Eastern Chief."
1904	Edward J. Chadbourne	Reading	First assistant engineer	– –
1904	William Stewart	Charlestown	First assistant engineer	– –
1907	*Joseph R. Wier	Saundersville	First assistant engineer	"Mexican."
1909	*William E. Caddigan	Dorchester	First assistant engineer	– –
1909	Fritz T. Kebler	Rochdale	First assistant engineer	"Henry F. Dimock."
1910	Leslie S. Badger	Norfolk, Va.	First assistant engineer	"Galveston."
1910	Harold C. Grover	Stoneham	First assistant engineer	"Nobles."
1912	Louis H. Racicot	W. Somerville	First assistant engineer	"Paul H. Harwood."
1913	Paul S. Rice	Cambridge	First assistant engineer	"Arlington."
1913	Russell A. McLay	Providence	First assistant engineer	"Currier."
1914	Leslie T. Severance	Cambridge	First assistant engineer	"Malden."
1914	Fred H. Brewster	Somerville	First assistant engineer	– –
1914	*Arthur C. Goodwin	Somerville	First assistant engineer	– –
1914	James A. Sweeney	E. Boston	First assistant engineer	– –
1914	Charles P. Tucker	Boston	First assistant engineer	"Northern Wave."
1915	*Roy C. Hartwell	New York	First assistant engineer	"Arizonan."
1915	Arthur F. Higgins	Lawrence	First assistant engineer	"Castlewood."
1915	*Clarence E. Stevens, Jr.	W. Barnstable	First assistant engineer	– –
1915	*Bernhardt Gerecke	Boston	First assistant engineer	– –
1915	Arvid H. Winquist	Mattapan	Fisrt assistant engineer	"Lake Forney."
1916	*Henry A. Guba	New Bedford	First assistant engineer	"Lake Benton."
1916	*John E. Pilkington	Mansfield	First assistant engineer	"Mobile City."
1916	*Paul Gorman	Marlborough	First assistant engineer	"Chickasaw City."
1916	*Carl E. Berglund	Brockton	First assistant engineer	"Toledo."
1916	*Alex. J. Phillips	Easton	First assistant engineer	"Boundbrook."
1917	Arthur Massey	No. Andover	First assistant engineer	"Conshohocken."
1917	Ernest E. Raby	No. Easton	First assistant engineer	"Liberty Minquist."
1917	*Arthur D. Murphy	Beverly	First assistant engineer	– –
1918	Raymond H. Sample	Montello	First assistant engineer	"Swiftsure."
1919	Loran H. Sanford	Beverly	First assistant engineer	"F. Q. Barstow."
1919	Warren L. Bailey, Jr.	Worcester	First assistant engineer	"West Saginaw."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1919	Roger N. Walcott	Concord	First assistant engineer	"Swiftarrow."
1919	Edward H. Morin	Stoneham	First assistant engineer	"Eastern King."
1919	John D. Cunningham	Quincy	First assistant engineer	"Mevania."
1896	*Arthur W. Higham	Lawrence	Second assistant engineer	– –
1897	Perley W. Kimpton	E. Somerville	Second assistant engineer	"Shawmut."
1903	Harold A. Thompson	So. Framingham	Second assistant engineer	– –
1904	*William A. Danforth	Dorchester	Second assistant engineer	– –
1908	Arthur E. Whiton	Greenwood	Second assistant engineer	"Norwood."
1909	*Frederick H. H. Sylvia	Nantucket	Second assistant engineer	– –
1910	William Bowen	Boston	Second assistant engineer	"Bunker Hill."
1911	David J. Fulton	Wollaston	Second assistant engineer	"Pluto."
1911	George L. Lockhart	Wakefield	Second assistant engineer	"Orion."
1911	*Alfred Marques	Charlestown	Second assistant engineer	– –
1911	Samuel D. White	Hyannisport	Second assistant engineer	"Edward Pierce."
1912	George R. Davison	Springfield	Second assistant engineer	"Ancon."
1912	Walter L. Brewster	Somerville	Second assistant engineer	Black Diamond Corporation.
1913	*Charles J. Balboni	New Bedford	Second assistant engineer	"Bessemer."
1913	Edward J. Fogarty	E. Boston	Second assistant engineer	"Ockenfels."
1914	Benj. H. Allen, Jr.	Lawrence	Second assistant engineer	"Leviathan."
1914	*C. Harold Peterson	Norwood	Second assistant engineer	– –
1914	Joseph L. Concannon	So. Boston	Second assistant engineer	"Brindella."
1915	*John Holmes	Campello	Second assistant engineer	– –
1915	*Sherman J. Barrett	Lawrence	Second assistant engineer	– –
1915	Stanislaus P. J. Ciolkosz	Taunton	Second assistant engineer	"West Jaffrey."
1916	*William W. Thomas	Concord	Second assistant engineer	– –
1916	*Joseph P. Condrey	Lowell	Second assistant engineer	– –
1916	*Harold W. Sanford	Springfield	Second assistant engineer	– –
1917	*Ernest C. Jensen	Provincetown	Second assistant engineer	"Lydia."
1917	Herbert A. James	Wellesley Farms	Second assistant engineer	"Lake Lida."
1917	*John T. Foye	Bridgewater	Second assistant engineer	– –
1917	Dwight W. Boyd	Randolph	Second assistant engineer	"Lake Ellendale."
1918	Joseph Freeman	Revere	Second assistant engineer	"Artegas."
1918	Elmer J. Kelley	Springfield	Second assistant engineer	"Lake Grogan."
1918	Stuart R. Colson	Whitman	Second assistant engineer	"O. T. Waring."
1918	Leroy B. Lowey	Woods Hole	Second assistant engineer	"Swiftwind."
1918	Francis J. Easton	Randolph	Second assistant engineer	"Branbrinno."
1918	Louis H. Johnson	Andover	Second assistant engineer	"Lake Sapor."
1919	Thomas F. Cotter	Lawrence	Second assistant engineer	– –
1919	Guy M. Hanna	Waltham	Second assistant engineer	"Surinam."
1919	Frank J. Couble	Brockton	Second assistant engineer	"Pocahontas."
1920	Arthur G. Berteaux	Norfolk	Second assistant engineer	– –
1920	John L. Flanagan	Lawrence	Second assistant engineer	"Imlay."
1920	John D. Young	Winthrop	Second assistant engineer	"Peter H. Crowell."
1921	Frederick L. Murphy	Roxbury	Second assistant engineer	"Pastores."
1921	Gerald D. Murphy	Campello	Second assistant engineer	"West Cawthorn."
1921	Albert I. Pilkington	Mansfield	Second assistant engineer	"Mobile City."
1923	Elmer H. Bridge	Fall River	Second assistant engineer	"Swift Scout."
1923	Walter C. Bathelt	Holyoke	Second refrigerating engineer.	"San Bruno."
1904	Thomas F. Gosnay	Wakefield	Third assistant engineer	– –
1907	Charles S. McDonald	Malden	Third assistant engineer	– –
1911	Walter P. Lynn	Beverly	Third assistant engineer	"Lake Copley."
1911	Joseph C. Chisholm	No. Billerica	Third assistant engineer	– –
1911	*Levi E. MacLeod	Gloucester	Third assistant engineer	– –
1913	*Nils J. Peterson	Brockton	Third assistant engineer	– –
1915	*Wilfred C. Herron	Lawrence	Third assistant engineer	– –
1916	Carleton G. Reed	Lexington	Third assistant engineer	– –
1916	Richard A. Standley	Beverly	Third assistant engineer	"Lake Benton."
1917	Philip H. Little	Holbrook	Third assistant engineer	"Lake Forney."
1918	John R. Carden	Haverhill	Third assistant engineer	"Lake Fernwood."
1918	Ralph A. Evers	Somerville	Third assistant engineer	"Swift Eagle."
1918	*Bernard F. Hurld	Stoneham	Third assistant engineer	"Van Dyke."
1918	Karl W. Newman	Brockton	Third assistant engineer	"De Soto."
1919	George C. Clements	Lynn	Third assistant engineer	"Vanguard."
1919	Carl W. Holmes	No. Easton	Third assistant engineer	"City of Rome."
1919	Charles B. Mitchell	Lawrence	Third assistant engineer	"Malden."
1919	Harding Smith	Nantucket	Third assistant engineer	"Floridian."
1919	Ronald G. Macintyre	Fall River	Third assistant engineer	"Swiftstar."
1919	James F. Beatty	Lowell	Third assistant engineer	"Durango."
1920	Lorenzo C. Brown	Everett	Third assistant engineer	"Resolute."
1920	James N. Oldroyd	Lynn	Third assistant engineer	"Lake Butler."
1920	Earle F. Clegg	Worcester	Third assistant engineer	"Puget Sound."
1920	Robert D. Mariner	Cambridge	Third assistant engineer	– –
1920	Ralph B. Warner	Marlborough	Third assistant engineer	– –
1920	*Joseph H. Donahue	Lawrence	Third assistant engineer	Gulf Refining Company.
1920	Chesley L. Kenyon	Huntington	Third assistant engineer	"Maddegat."
1920	Charles J. Gibson	Beverly	Third assistant engineer	"Crabtree."
1920	Joseph H. Flanagan	Lawrence	Third assistant engineer	"Lake Lasang."
1922	Richard W. Norcross	Needham	Third assistant engineer	"Swifteagle."

Officers in the Merchant Marine — Concluded.

Year.	Name.	Residence.	Position.	Vessel or Service.
1922	Lloyd M. Johnson	Allston	Third assistant engineer	"San Mateo."
1922	Louis F. Harlow	North Easton	Third assistant engineer	"W. A. McKenney."
1922	Roy Y. Gordon	Somerville	Third assistant engineer	"Josiah Macy."
1922	Nathan S. Crowell	E. Dennis	Third assistant engineer	– –
1922	Frederick W. Mahoney	Somerville	Third assistant engineer	"Mount Clay."
1923	George F. Carleton	Lynn	Third assistant engineer	– –
1923	Arthur F. Cole	W. Lynn	Third assistant engineer	"Wabash."
1923	Thomas F. Fairbrother	N. Billerica	Third assistant engineer	– –
1923	Augustin P. Heffron	Marlborough	Third assistant engineer	"Ossage."
1923	Edmond M. Hourigan	Dorchester	Third assistant engineer	"Penobscot."
1923	Alfred Humphries	Salem	Third assistant engineer	"Thomas P. Beal."
1924	Aubrey C. Allen	Marlborough	Third assistant engineer	"Imlay."
1924	Paul W. Anderson	N. Easton	Third assistant engineer	"El Siglo."
1924	Ellery H. Capen	New Bedford	Third assistant engineer	– –
1924	Ralph L. Langille	South Boston	Third assistant engineer	"Meteor."
1924	Edmond P. Martin	Lynn	Third assistant engineer	– –
1924	Edwin S. Evans	Paxton	Third assistant engineer	"Hoxbar."

Special Employment with the General Electric Company.

[Honor Engineer Graduates.]

1924	Percy J. Lewis	West Lynn	Special employment	General Electric Co.
1924	Earle B. Downing	East Lynn	Special employment	General Electric Co.
1924	Albert R. Henreckson	Sharon	Special employment	General Electric Co.

Ship Construction.

1895	Charles H. Lincoln	Detroit, Mich.	Marine surveyor and inspector.	– –
1901	David W. Warren	Everett	Master mechanic	Curtis Bay Copper Iron Works.
1903	Edward J. Hogan	Charlestown	Assistant superintendent	– –
1909	Stanton Haversham	Bridgeport	Hull draftsman	Lake Torpedo Boat Company.
1911	Henry W. Ober	Everett	Electrician	Fore River Shipbuilding Company.
1912	Joseph B. Sylvaro	Dorchester	Electrician	Fore River Shipbuilding Company.
1902	Edw. J. Campbell	Dorchester	Engineman	Navy Yard, Boston.

Instructors.

1909	*Ervin L. Kelley	Arlington	Chief engineer	U. S. S. "Nantucket."
1912	John W. Thompson	Dorchester	Navigating officer	U. S. S. "Nantucket."
1912	*Norman E. Merrill	Cambridge	Watch officer	U. S. S. "Nantucket."
1919	Llewellyn Roberts	Arlington	Watch officer	U. S. S. "Nantucket."

The United States Navy.

1906	*Howard G. Copeland	Malden	Commander, U. S. N. R.	U. S. Navy Yard, Boston, Mass.
1907	Thomas Baxter	So. Dennis	Lieutenant commander	U. S. S. "Canopus."
1898	Herbert E. Fish	Charlestown	Lieutenant	U. S. S. "Melville."
1898	Clarence E. Wood	Fall River	Lieutenant commander (Ret.)	– –
1902	John F. Murphy	Worcester	Lieutenant	U. S. S. "Florida."
1910	Russell H. Sullivan	Westfield	Lieutenant (Junior grade)	Naval Air Station, Pensacola, Fla.
1906	William R. Dolan	Worcester	Lieutenant	U. S. S. S-13.
1916	Darrough S. Gurney	Marion	Lieutenant	U. S. S. S-11.
1917	Phillip G. Nichols	Peabody	Ensign	U. S. S. "Bruce."
1906	Carroll L. Morgan	Beverly	Gunner	U. S. S. "West Virginia."
1899	Leroy Neil	Lynn	Chief machinist	U. S. S. "Colorado."

The United States Marine Corps.

Year.	Name.	Residence.	Position.	Vessel or Service.
1903	Leander A. Clapp	Brockton	Major	Marine Barracks, Boston.
1906	Clarence E. Nutting	Washington	Major	Santo Domingo, D. R.

The United States Coast Guard Service.

1895	Philip W. Lauriat	Medford	Lieutenant commander	"Yumacraw."
1896	Webb C. Maglathlin	Bridgewater	Lieutenant commander	"Ossipee."
1897	Lorenzo C. Farwell	Dorchester	Lieutenant commander	"Manning."
1897	Albert F. Patterson	New York	Lieutenant commander	"Unalga."
1899	James A. Alger	Reading	Lieutenant commander	"Gresham."
1906	William F. Towle	Boston	Lieutenant commander	"Comanche."
1906	Henry C. Roach	New Bedford	Lieutenant commander	"Tampa."
1913	*Frank H. Nelson	Taunton	Ensign	– –
1917	William W. Storey	Jamaica Plain	Ensign	"Yumacraw."
1919	Harry C. Howe	Stoneham	Ensign	– –
1922	Angus S. MacIntyre	Provincetown	Ensign	"Trippe."
1923	Julius F. Jacot	Beachmont	Ensign	– –

The United States Lighthouse Service.

1895	George E. Eaton	Woods Hole	Superintendent	Second Lighthouse District, Boston, Mass.
1904	John F. Williamson	Brockton	Captain	U. S. L. H. T. "Speedwell."
1905	Harry W. Maynard	Milwaukee	Captain	U. S. L. H. T. "Hyacinth."

The Engineer Corps, United States Army.

1921	Thomas J. Mew	Holyoke	Second assistant electrician.	"Dan C. Kingman."
1922	George F. Carreiro	Fall River	Second assistant electrician.	"W. L. Marshall."
1923	Frederick N. Dodd	E. Lynn	Third assistant electrician	"William T. Rossell."

United States Steamboat Inspection Service.

1902	Herman T. Parker	Rockport	Inspector of hulls	Boston, Mass.
1900	James F. Rawdon	Worcester	Assistant inspector of boilers.	Providence, R. I.
1911	*Charles F. Fornason	Marblehead	Assistant inspector	Albany, N. Y.

The Hydrographic Office, Navy Department.

1913	*George W. Sullivan	New Bedford	Nautical assistant	Washington, D. C.
1918	Alex G. Anderson	Dorchester	Nautical assistant	Washington, D. C.
1918	James R. Heaney	E. Lynn	Nautical assistant	Washington, D. C.
1919	Charles B. Scully	Rockland	Nautical assistant	Washington, D. C.
1919	Arthur O'Leary	So. Boston	Nautical assistant	Washington, D. C.
1919	Edmond F. Bemis	E. Lynn	Nautical assistant	Washington, D. C.
1919	Walter J. Cronin	Somerville	Nautical assistant	Washington, D. C.
1920	William G. Watt	Newton	Nautical assistant	Washington, D. C.

Appropriations.

The appropriations for the school for the fiscal year 1924, from December 1, 1923, to November 30, 1924, are here accounted for, as follows:

Expenses of Schoolship.	Appropriation.	Expenditures.
Personal services	$44,000 00	$43,865 07
Travel, transportation and office expenses	2,000 00	2,634 37
Food	21,500 00	20,520 04
Furnishings and household supplies	1,300 00	968 64
Medical and general care	1,200 00	1,137 94
Heat, light, power, etc.	10,700 00	9,722 92
Repairs, ordinary	2,800 00	3,523 76
Miscellaneous	2,800 00	3,813 87
Appropriation by the Commonwealth[1]	$86,300 00	$86,186 61
Unexpended balance	–	113 39
	$86,300 00	$86,300 00

Expenses of Commission.	Appropriation.	Expenditures.
Personal services	$4,000 00	$3,930 00
Unexpended balance	–	70 00
	$4,000 00	$4,000 00
Office supplies and equipment	255 00	322 44
Traveling and other services and expenses	2,145 00	1,926 94
Appropriation by the Commonwealth[1]	$2,400 00	$2,249 38
Unexpended balance	–	150 62
	$2,400 00	$2,400 00

[1] The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

The estimates for the year 1925 are as follows:

Expenses of Schoolship	$88,424
Expenses of Commission	2,407
Personal Services	4,200

Respectfully submitted,

FRANCIS T. BOWLES, *Chairman.*
WILLIAM E. McKAY.
CLARENCE E. PERKINS.

Boston, December 1, 1924.

Public Document No. 42

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The Commonwealth of Massachusetts

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1925

MASSACHUSETTS NAUTICAL SCHOOL

DEPARTMENT OF EDUCATION

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE

850 1-'26 Order 3987

The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION.

PAYSON SMITH, *Commissioner of Education.*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL.

14 Beacon Street, Boston.

FRANCIS T. BOWLES, *Chairman.*
WILLIAM E. McKAY.
CLARENCE E. PERKINS.

WILLIAM H. DIMICK, *Secretary.*

REPORT OF THE COMMISSIONERS.

To the Commissioner of Education.

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1925, the thirty-fourth annual report.

The Massachusetts Nautical School, created under an act of the General Court of 1891, is now in its thirty-fifth year of active service. Two thousand three hundred and eighty-five sons of citizens of Massachusetts have entered the school, 1,190 have completed the course and received diplomas, and of these about 95 per cent have served at sea in the merchant marine of the United States or are employed in connection with shipping.

The ship upon which the school is conducted is loaned by the United States Navy, and maintained in repair by the Navy. The Federal Government contributes annually under an act of Congress, the sum of $25,000 towards the maintenance of the school. The Commonwealth appropriates the balance of the cost of maintenance, about $65,000 each year.

The present ship, formerly the U.S.S. "Ranger," now the U.S.S. "Nantucket," has been in our service since 1909. The vessel, while in excellent sea-worthy condition and having this summer made a cruise of 12,600 miles, is admirably adapted to the purposes of the school, and would be good for another thirty years' service, if supplied with new boilers and motive machinery. The present equipment is obsolete and uneconomical, not the best adapted for instruction. The boilers must necessarily be renewed shortly.

The Commissioners last year brought this matter to your attention and to that of His Excellency the Governor, asking that the Navy Department be requested to provide a new installation of boilers and engines. The Navy Department expressed the opinion that the vessel was worthy of this improvement and directed the estimates of cost to be prepared at the Boston Navy Yard. The cost being beyond the limit set by law for repairs under general appropriations for that purpose, special authority of Congress is necessary, therefore, the subject was brought to the attention of Congress through the cooperation of Hon. William M. Butler, Senator from Massachusetts, and who will again in the current session of Congress ask for the authority of the law and an appropriation of about the sum of $250,000 for the purpose. As the Navy Department has no other ship suitable for the use of the school which could be loaned to the Commonwealth, it is of the first importance in the maintenance of the school and its efficiency that this matter should have the cooperation of His Excellency the Governor and the members of the General Court.

Graduates of 1925.

During the past year, the school has graduated 48 sons of the citizens of Massachusetts, all of whom obtained from the United States Steamboat Inspection Service, licenses as either third officers or third assistant engineers, qualifying them

for service on United States vessels. Below will be found the names of these graduates, their home town, and the vessels upon which they are now serving:

Richard G. Aaron	Allston	S.S. "Swift Wind"	Mallory Line
Leroy N. Andrew	Lynn	S.S. "Kentuckian"	American Hawaiian Line
Joseph D. Barnicle	Waltham	S.S. "Plymouth"	C. H. Sprague & Son
John P. Binney	Milford	– –	– –
Harold W. Bradbury	Cliftondale	S.S. "Edward Luckenbach,"	Luckenbach Line
Harold K. Bradford	Saugus	S.S. "Kentuckian"	American Hawaiian Line
Arthur J. Carnes	Malden	S.S. "Floridian"	American Hawaiian Line
Malcolm E. Crossman	Taunton	S.S. "Floridian"	American Hawaiian Line
Houghton L. Cummings	W. Newton	S.S. "Plymouth"	C. H. Sprague & Son
James F. Donovan	Lawrence	S.S. "Julia Luckenbach,"	Luckenbach Line
Frank S. Dowd	Fall River	S.S. "Edward Luckenbach,"	Luckenbach Line
Sidney P. Dunn	Gloucester	S.S. "City of Eureka"	American Export Lines
William R. Fallon	Dorchester	S.S. "Leviathan"	United States Lines
Paul W. Fellows	Reading	S.S. "Louis K. Thurlow,"	Mystic S. S. Co.
Joseph J. Gately	Roslindale	– –	– –
Stephen T. Gill	North Eastham	S.S. "Kentuckian"	American Hawaiian Line
Acer N. Hilbourne	Cliftondale	General Electric Co.	– –
Richard L. Horne	Gloucester	S.S. "Kentuckian"	American Hawaiian Line
Thomas A. Jacobs	Amesbury	– –	American Hawaiian Line
Folke C. Johnson	North Easton	S.S. "Lake Fernando"	Munson Line
Henry A. Lee	Beachmont	S.S. "Julia Luchenbach,"	Luckenbach Line
Paul L. Litchfield	Dracut	S.S. "The Lambs"	Barber Line
Joseph W. MacDiarmid	Mansfield	S.S. "Redman"	Munson Line
Douglas MacMaster	Cambridge	S.S. "Minnesotan"	American Hawaiian Line
Harold M. Mann	Boston	S.S. "Mexican"	American Hawaiian Line
David G. McGourthy	Roxbury	S.S. "Robert E. Lee"	Ward Line
Delmont N. Merrill	Waltham	– –	– –
John G. Moore	Roxbury	S.S. "Belfast"	Eastern Steamship Co.
Henry W. Murphy	Avon	M.S. "William Penn"	United States Lines
John E. Nee	Concord Junction	S.S. "Virginian"	American Hawaiian Line
George W. Nelson	Brockton	S.S. "Mexican"	American Hawaiian Line
Harold V. Nerney	Attleboro	S.S. "American Legion"	Munson Line
Stanley F. Piekos	Salem	S.S. "Kentuckian"	American Hawaiian Line
Edward C. Pilote	Whitman	S.S. "Edward Luckenbach,"	Luckenbach Line
John E. Reagan	Fall River	S.S. "Robert Luckenbach,"	Luckenbach Line
Harvey J. Reynolds	Duxbury	S.S. "Floridian"	American Hawaiian Line
Albert B. Rich	Atlantic	S.S. "Californian"	American Hawaiian Line
Winslow M. Rouse	Roxbury	S.S. "Fairfield City"	Isthmian Line
Joseph A. Scully	Rockland	S.S. "Durango"	Mallory Line
Adelbert H. Smith	Dracut	S.S. "Eclipse"	Barber Line
Andrew C. Smurrage	Gloucester	– –	– –
Rupert K. Stewart	Melrose Highlands	S.S. "Pennsylvanian"	American Hawaiian Line
Laurence B. Swann	North Adams	General Electric Co.	– –
Rodman W. Vaughan	Middleborough	S.S. "Ohioan"	American Hawaiian Line
David Vincola	East Boston	– –	– –
James E. Walsh	Watertown	S.S. "Coastwise"	Coastwise Line
John J. Woodlock	Mansfield	S.S. "Steel Trader"	Isthmian Line
Theodore C. Wyman	Hopkinton	S.S. "American Legion"	Munson Line

Prizes.

Public interest in the careers of these young men has been shown by the prizes offered and awarded to them on graduation.

The Maritime Association of the Boston Chamber of Commerce presented a prize to the graduate in the Seamanship Class and the graduate in the Engineering Class having the highest standing in professional studies for the whole course. A pair of binoculars was given to the seamanship graduate and a wrist watch to the engineer graduate.

The Alumni Association of the Nautical School presented a prize to the graduate in the Seamanship Class, and the graduate in the Engineering Class, having the best all round record for the two years' course. The prize for the Seamanship graduate was the following reference books: "Wharf Management," and "Stevedoring and Storage." The prize for the Engineer graduate was the following books: "Marine Engineers Handbook" and "Modern Marine Engineering."

The Wood-Whitman Memorial Prize.

Under the will of the late Mr. Irving Wood of Boston, there was left in trust to the United States Trust Company, the sum of $5,000, the net income of which is to be paid each year to the graduate of the Massachusetts Nautical School who has the highest standing in Seamanship and Navigation at the conclusion of his course of study and training. This bequest is a tribute to the memory of Capt. James Thompson Whitman, master of the Boston ship "Gertrude" in which Mr. Wood served as a boy in the early sixties on a voyage to South America, China and the East Indies.

Mr. Wood believed that his success in life as a merchant was due in large measure to the training and discipline he received under Captain Whitman. This prize which will become available in 1927 is highly appreciated by the Commissioners of the Nautical School and worthy of the emulation and interest of coming classes.

Mr. Wood was born in Canterbury, Connecticut, September 10, 1844, and died in Boston on June 21, 1925.

The General Electric Company gives the honor graduate in engineering special employment, with the opportunity for practical and theoretical instruction in marine and electrical apparatus prior to service at sea.

Admissions.

Admissions to the Nautical School are made as the result of competitive examinations held in Boston and Springfield after due advertisement, and the number of applicants is from two to three times the number of vacancies available. Those who are appointed make a deposit of $130 the first year and $25 the second year, a total of $155 which covers the cost of uniforms and books, and such other items of clothing as they may wish to purchase from the ship's stores. Otherwise instruction and subsistence on the ship is free and at the expense of the Commonwealth.

It has been frequently suggested to the Commissioners that the appointees should pay in addition a portion of the cost of their subsistence, say $50 annually. Such an additional fee, if imposed, would raise a sum of $3,500 annually, and constitute about 14 per cent of the total annual cost of subsistence of $25,380.

It has been stated that this is customary at other similar institutions of the Commonwealth, and it has been suggested that the establishment of such fees might be accompanied with the authority to disburse perhaps 20 per cent of the amount so raised in the distribution of scholarships and prizes to deserving cadets.

The Commissioners have given this subject careful consideration and have decided that the proposed fees are inadvisable and unwarranted in the Nautical School. We believe that the additional fees would deter a considerable proportion of our present applicants from attempting to secure the advantages of the school. We believe they are unwarranted in the Nautical School because of the unusual condition in a public institution of this kind that the cadets themselves do a very large proportion of the actual work of maintenance and operation. They serve as mess cooks and strikers in the serving of meals, the handling of mess stores, the cleanliness of the mess deck, the washing of dishes. They serve as officers of the deck, as orderlies and sentries while the ship is in port, taking the place of additional officers and watchmen. During the winter, they overhaul all the ship's running gear, and prepare it for the cruise. During the cruise they actually perform the daily duties of the subordinate officers and crew for the operation of the ship either in port or under sail or steam, and perform all the duties of firemen and oilers. The employed crew of the ship is thus reduced to a minimum, and consists of 4 seamen, employed the year round, and 3 firemen, employed only when in port during the winter term. The value of the service which they perform is estimated at approximately $18,000 annually.

The Commissioners feel that the facts stated above are little appreciated, and believe that the services which our cadets supply in the operation of the school are a very desirable and necessary part of their actual instruction, and contribute largely to the well known efficiency of our graduates in actual service afloat.

The 1925 Cruise.

The "Nantucket" departed from Boston on May 7 and after calling at Provincetown, proceeded to Ponta Delgada in the Azores, thence to Madeira for coal and St. Vincent, Cape Verde Islands, thence on its long leg principally under sail alone to Rio Janeiro. After an interesting visit in Rio, the ship proceeded to Bahia, and thence to Port of Spain, Trinidad; Bridgetown, Barbadoes; Fort de France, Martinique; Fredericksted, St. Croix; Hamilton, Bermuda; Nantucket and Provincetown, arriving at Boston on September 20, making a total of 12,600 miles.

Commissioner Appointed.

On July 1, 1925, Mr. Clarence E. Perkins, of Winthrop, was reappointed a Commissioner of the school for a term of three years.

Resignation of Navigator.

Mr. John W. Thompson, a graduate of the Nautical School in the class of 1912, resigned as Navigator and Instructor in Navigation, on April 30, 1925, after eight years service with the school. His resignation was accepted with regret.

Lectures.

1924

November 19. Community singing, with solos by Mr. Hubert Perry and others.
December 10. John Edward Macy, class of 1896, "Admiralty Law."
December 17. Rev. Charles E. Park, D.D., "Clipper Ships." (Illustrated.)

1925

January 7. Dr. Alfred Johnson. Subject: "A Cruise in a House Boat from Maine to Florida through the Inland Waterways." (Illustrated.)
January 14. Lieut. Commander S. N. Moore, U. S. N., "Obtaining a Position by Radio."
January 21. Captain Elliot Snow, U. S. N., "Benjamin Franklin."
January 28. Captain B. W. Joy, Nantucket, "My Experience in the American Merchant Marine."
February 11. Prof. Harlan T. Stetson, Harvard University. Subject: "Astronomy." (Illustrated.)
February 18. Captain George E. Eaton, Superintendent, Second District, United States Lighthouse Service, "Lighthouses and Light Vessels."
February 25. Dr. Alexander G. McAdie, "Clouds." (Illustrated.)
March 4. Commander Howard G. Copeland, U. S. N. R., "Sea Power."

The School Record.

During the year there have been 188 students on the rolls of the school. They came from 76 cities and towns of the Commonwealth, as follows:

Amesbury	3	Medford	1
Arlington	1	Melrose	3
Athol	1	Middleborough	2
Attleboro	4	Milford	1
Auburn	1	Millbury	1
Avon	2	Nantucket	1
Barnstable	1	Natick	1
Bernardston	1	Needham	1
Billerica	2	New Bedford	5
Boston	36	Newton	3
Bridgewater	1	North Adams	1
Brockton	3	Northampton	1
Brookline	1	Plymouth	1
Cambridge	5	Provincetown	2
Chatham	1	Quincy	6
Chicopee	1	Reading	1
Cliftondale	2	Revere	1
Concord	2	Rockland	1
Duxbury	1	Salem	3
Eastham	1	Saugus	3
Easthampton	1	Shrewsbury	2
Easton	2	Somerville	4
Everett	1	South Vernon	1
Fairhaven	2	Springfield	2
Fall River	8	Swampscott	1
Fitchburg	1	Taunton	2
Framingham	2	Vineyard Haven	1
Gardner	2	Walpole	1
Gay Head	1	Waltham	2
Gloucester	4	Ware	2
Hadley	1	Watertown	1
Holyoke	3	Westborough	1
Hopkinton	1	Weymouth	2
Lawrence	2	Whitman	3
Littleton	1	Wilmington	1
Lowell	4	Wollaston	1
Lynn	6	Worcester	3
Malden	3		
Mansfield	4		188

Their previous education was as follows: high schools, 149; technical schools, 12; colleges, 9; vocational schools, 9; academies, 6; industrial schools, 2; grammar schools, 1. The average age of the cadets at entrance was 18 years and 5 months. The number of cadets enrolled in the school at present is 114.

Occupation of Parents or Guardians.

Housewives	22	Shovelmaker	1
Salesmen	10	Captain, U. S. Army	1
Shoe workers	8	Hair Specialist	1
Retired	7	Shoemaker	1
Foremen	6	Engraver	1
Farmers	5	Loom fixer	1
Grocers	4	Electrical engineer	1
Painters	4	Traffic engineer	1
Chauffeurs	4	Deputy governor, bank	1
Machinists	3	Receiver	1
Carpenters	3	Signal supervisor	1
Dentists	3	Inspector	1
Insurance business	3	Conductor	1
Fish dealers	3	Laundry Proprietor	1
Managers	3	Signalman	1
Clerks	3	Butcher	1
Merchants	3	Iron worker	1
Wood workers	3	Shirt maker	1
Civil engineers	2	Claim officer	1
Prison officers	2	District chief, fire dept.	1
Shippers	2	Accountant	1
Overseers	2	Waitress	1
Patrolmen	2	Jeweler	1
Contractors	2	Chiropractor	1
Bakers	2	Constable	1
Grinders	2	Saleswoman	1
Stationary engineers	2	Superintendent, cotton mill	1
Physicians	2	Paper maker	1
Coast Guard officers	2	Agent	1
Manufacturers	2	Superintendent, gas and electric company	1
Letter carriers	2	Lighthouse keeper	1
Janitors	2	Investment banker	1
Auto workers	2	Real estate business	1
Signal company employees	2	Last maker	1
Marine engineers	2	Blacksmith	1
Storekeeper	1	Editor	1
Proprietor, boiler works	1	Mariner	1
Dressmaker	1	Train despatcher	1
Railroad engineer	1	Nickel plater	1
Plumber	1	Electrician	1
Dealer in monuments	1	Bookkeeper	1
Gardner	1	Lawyer	1
Brick mason	1	Tool maker	1
Fisherman	1	Steamfitter	1
Dyemaker	1		
Dry goods	1		
Assistant city auditor	1		
Sheet metal worker	1		188

Officers and Instructors.

The present officers and instructors of the school are as follows:

Armistead Rust, Captain, U. S. N., Retired, Superintendent and commanding officer.
John J. McCracken, Lieutenant Commander, U. S. N., Retired, Executive Officer.
Norman E. Merrill (graduate M. N. S.), Navigator.
Herbert A. Beaumont (graduate M. N. S.), Watch Officer.
Nicolai S. Sivertsen, Watch Officer.
Ervin L. Kelley, Lieutenant, U. S. N. R. F. (graduate M. N. S.), Chief engineer.
John D. Bosler (graduate M. N. S.), Assistant engineer.
Arthur L. Wheeler, Instructor in mathematics.
F. Dennette Adams, M.D., Medical officer.
Charles Parker, Paymaster and Captain's clerk.

Cadet Officers of the Massachusetts Nautical School.

Summer Term, 1925.

Joseph A. Scully, *Cadet Master.*

Navigation.

Thomas A. Jacobs	*Cadet First Officer.*
Stanley F. Piekos	*Cadet Second Officer.*
David Vincola	*Cadet Third Officer.*

Engineering.

Acer N. Hilbourne	*Cadet Engineer.*
Folke C. Johnson	*Cadet First Assistant Engineer.*
Paul W. Fellows	*Cadet Second Assistant Engineer.*

Petty Officers.

(*Deck.*)

George W. Nelson.
James E. Walsh.
Henry K. Bradford.
Leroy N. Andrew.
Laurence D. Fenerty.
Earle B. Vaux.
Robert X. Perry.
Harold A. Weston.

Oliver P. Wolfe, *Cadet Carpenter.*

(*Engineering.*)

John J. Woodlock, *Cadet Machinist.*
Theodore C. Wyman, *Cadet Electrician.*

Winter Term, 1925–26.

Laurence D. Fenerty, *Cadet Master.*

Navigation.

Earle B. Vaux	*Cadet First Officer.*
Oliver P. Wolfe	*Cadet Second Officer.*
Charles T. Conroy	*Cadet Third Officer.*

Engineering.

Charles E. L. Kimball	*Cadet Engineer.*
Marshall W. Jones	*Cadet First Assistant Engineer.*
Harry L. Young	*Cadet Second Assistant Engineer.*

Petty Officers.

(*Deck.*)

Harold A. Weston.
Robert X. Perry.
Nicholas D. Scully.
Paul G. Hirst.
A. William Fallis.
John H. Francis.
Richard T. Rounds.
Clarence D. Carlos.

(*Engineering.*)

Walton C. Crouse, *Cadet Machinist.*
Thomas E. O'Donovan, *Cadet Electrician.*

Cadets Admitted, Graduated and Honorably Discharged, from 1893 to 1925, inclusive.

	Admitted.	Graduated.			Honorably discharged.	Withdrawn, dismissed, dropped.	Number connected with the school.
		Seamanship Class.	Engineer Class.	Totals.			
1893	141	–	–	–	29	24	138
1894	63	–	–	–	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	133
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
Totals	2,385	619	571	1,190	643	438	–

Membership of the School.

[*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.]

Graduating Class, March, 1925.

Seamanship Division.

***Dowd, Frank S.**	Fall River.
***Litchfield, Paul L.**	Dracut.
***Horne, Richard L.**	Gloucester.
***Pilote, Edward C.**	Whitman.
***Rich, Albert B.**	Atlantic.
Lee, Henry A.	Beachmont.
Carnes, Arthur J.	Malden.
Donovan, James F.	Lawrence.
Reynolds, Harvey J., Jr.	Duxbury.
Crossman, Malcolm E.	Taunton.
McGourthy, David G.	Roxbury.
MacMaster, Douglas	Cambridge.

Engineering Division.

Swann, Laurence B.	North Adams.
***MacDiarmid, Joseph W.**	Mansfield.
Smurrage, Andrew C.	Gloucester.
Dunn, Sidney P.	Gloucester.
Smith, Adelbert H.	Dracut.
Moore, John G.	Roxbury.
Fallon, William R.	Dorchester.

Aaron, Richard G.	Allston.
Bradbury, Harold W.	Cliftondale.
Cummings, Houghton L.	West Newton.
Reagan, John E.	Fall River.
Murphy, Henry W.	Avon.
Stewart, Rupert K.	Melrose Highlands.

Graduating Class, October, 1925.

Seamanship Division.

***Piekos, Stanley F.**	Salem.
***Vincola, David**	East Boston.
***Nerney, Harold V.**	Attleboro.
***Andrew, Leroy N.**	Lynn.
***Jacobs, Thomas A.**	Amesbury.
Walsh, James E.	Watertown.
Bradford, Henry K.	Saugus.
Gill, Stephen T.	North Eastham.
***Scully, Joseph A.**	Rockland.
Nelson, George W.	Brockton.
Vaughan, Rodman W.	Middleborough.
Binney, John P.	Milford.
Mann, Harold M.	Boston.
Rouse, Winslow M.	Roxbury.

Engineering Division.

***Hilbourne, Acer N.**	Cliftondale.
***Wyman, Theodore C.**	Hopkinton.
***Fellows, Paul W.**	Reading.
Johnson, Folke C.	North Easton.
***Barnicle, Joseph D.**	Waltham.
Woodlock, John J.	Mansfield.
Nee, John E.	Concord Junction.
Gateley, Joseph J.	Roslindale.
Merrill, Delmont N., Jr.	Waltham.

Class to Graduate, April, 1926.

Seamanship Division.

***Fenerty, Lawrence D.**	Scituate.
Vaux, Earle B.	Swampscott.
Conroy, Charles T.	Vineyard Haven.
Perry, Robert X.	South Boston.
***Weston, Harold A.**	Salem.
Wolfe, Oliver P., Jr.	Boston.
Scully, Nicholas D., Jr.	Dorchester.
Ames, Wendell G.	Medford.
Hirst, Paul G.	Amesbury.
Preble, Donald A.	Quincy.

Engineering Division.

Crouse, Walton C.	Lynn.
Jones, Marshall W.	Cambridge.
Kimball, Charles E. L.	Quincy.
Pilkington, Elwin A.	Mansfield.
O'Donovan, Thomas E.	Dorchester.
Young, Harry L.	Attleboro.
Rooney, John A.	South Boston.
Dunbar, Boyd	Hyde Park.
Pilote, Joseph A.	Whitman.
Harty, John F.	Charlestown.
Halliden, William A.	South Boston.

Class to Graduate October, 1926.

Queen, Norman L.	Needham Heights.
***Scully, William J.**	Dorchester.
Guy, George H.	Saugus.
Preston, George J.	Weymouth.
***Bradford, William A., Jr.**	Saugus.
Carlos, Clarence D.	Provincetown.
Rounds, Richard T.	Billerica.
Wirtanen, Frank E.	West Barnstable.
Dunlap, Josiah B.	Plymouth.
Hooper, Herbert	Springfield.
Francis, John H.	Avon.
Hersey, Elwyn W.	North Weymouth.
Hassett, H. Joseph	Fitchburg.
Hoitt, Frederick D.	West Somerville.
Merchant, Harry W.	New Bedford.
Reed, Lloyd K.	Shrewsbury.
Fallis, A. William	Atlantic.
Fordan, John T.	Boston.
Ashton, John B.	Millbury.
Loring, John S.	Shrewsbury.
Gilbert, Mark L., Jr.	Fairhaven.
Lewerenz, Ernest A. M.	Roxbury.
Hackett, Paul F.	Fall River.
Coburn, Clyde R.	Hyde Park.
MacBrayne, Thurlow	Lowell.
Fahey, James J.	South Boston.
Corkhill, Albert A.	Lawrence.
Coyle, Edward R.	Taunton.
Woodaman, Benjamin R.	Tisbury.
Hudson, George F.	Dorchester.

Class to Graduate April, 1927.

Boys, Milburn G.	Holyoke.
MacDiarmid, P. Edwin	Mansfield.
Buckley, Ralph L.	Ware.
Glover, Kenneth B.	Wilmington.
Vanderhoop, C. Earl	Gay Head.
Dixon, Prescott L.	Nantucket.
Hatch, Aylmer R.	Ware.
Simonsen, Christian, Jr.	Boston.
Brimner, W. Duncan	East Walpole.
Norvish, Stephen F.	Brockton.
Steele, Frederick E.	Malden.
Currie, W. Wallace	East Boston.
Wells, Albert B.	Melrose.
Proctor, John	New Bedford.
Redmond, Charles O., Jr.	Lynn.
Allen, Gilbert L.	Attleboro.
Wildman, John	New Bedford.
Carroll, Wilson C.	New Bedford.
McCulloch, James A.	South Vernon.
Edie, Ernest K., Jr.	Wollaston.
Thistle, Charles	Salem.
Porter, William E.	Lynn.
Davis, Robert H.	Chicopee Falls.
McKinnon, William V.	South Boston.
Gay, Charles H., Jr.	Mattapan.
Gilligan, Edward C.	Concord Junction.
Sabine, John W.	Auburn.

Lawson, Arthur E.	Gloucester.
Powers, Harold J.	Framingham.
Doolan, Kenneth E.	Athol.
Rand, Redford M., Jr.	Melrose.
Belhumeur, Maurice J. A.	Boston.
Potter, Lloyd S.	New Bedford.

Class to Graduate October, 1927.

(Alphabetically arranged.)

Alderman, Ralph D.	Springfield.
Atkinson, William H., Jr.	Framingham.
Bramer, Alfred W.	Brighton.
Breece, Lawrence M.	Gardner.
Bullen, H. Winthrop	Westborough.
Carlson, Clifford H.	West Bridgewater.
Curtis, Raymond W.	Taunton.
Davis, John C.	Gardner.
Dodge, Russell A.	Worcester.
Eldred, Fay H.	Bernardston.
Fink, Fred A.	Easthampton.
Jaeger, Edward F.	Mattapan.
Kimball, Paul C.	Littleton.
Lane, Howard F.	Forest Hills.
MacDonald, James D.	Lynn.
MacPhee, Paul T. R.	Arlington.
McAuliffe, John B.	South Boston.
Nelson, William F.	Brockton.
Quandt, Theodore P.	Boston.
Rancod, Max A.	Holyoke.
Range, Howard R.	North Easton.
Rounds, Allen P.	Billerica.
Rowe, Charles V.	Cambridge.
Ryder, R. Allen S.	Chatham.
Seymour, Ford deV.	Fairhaven.
Shea, John L.	North Attleboro.
Wilder, H. Bancroft, Jr.	Newton Centre.
Williams, Donald B.	Worcester.
Zeller, F. Raymond	Whitman.

Register of Graduates.

Officers in the Merchant Marine.

[* Enrolled in the United States Naval Reserve during the World War.]

Year.	Name.	Residence.	Position.	Vessel or Service.
1898	Joseph E. Sheedy	Reading	Vice-president	United States Shipping Board.
1903	Nicholas J. Kane	Whitman	Superintendent	American-Hawaiian Line.
1897	*Frederick W. Jones	Winchester	– –	United States Shipping Board, Washington, D. C.
1909	Robert S. Sparrow	Eastham	Assistant General Agent	A. H. Bull Line.
1909	*John J. Coholan	South Boston	Marine superintendent	Galveston, Texas.
1911	Norris T. Ela	Douglas	Marine superintendent	Atlantic, Gulf & Pacific Corp., Baltimore, Md.
1911	*William M. Gorham	Winthrop	Manager	Kauai Marine Railway Co., Port Allen, Kauai, Hawaii.
1915	*Charles H. Hurley, Jr.	Gardner	Manager	Jarka and Co., Stevedores, Boston.
1919	Richard R. McNulty	Gloucester	Assistant marine superintendent.	Mallory Transport Lines.

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1899	Edward G. Smith	Boston	Port captain	Freeport Sulphur Co.
1901	Theodore H. Bicknell	Melrose	Port captain	Union Sulphur Co.
1905	*Walter L. Smith	Ashburnham	Port captain	United States Shipping Board, Baltimore, Md.
1918	Raymond E. Saunders	Somerville	Office superintendent	Florida Railroad and Navigation Corp., Everglades, Florida.
1894	Henry G. Carpenter	Roxbury	Captain	"William M. Green."
1894	Albert L. Warner	Wollaston	Captain	"Lake Gardner."
1895	Walter J. Healey	Worcester	Captain	"Walter Jennings."
1895	Geo. L. P. Covell	Roxbury	Captain	"Henry S. Groves."
1895	Horace W. Folger	Wilmington	Captain	Boston Pilot Boat Service.
1896	*Wm. N. P. Baker	Brooklyn	Captain	"Oakwood."
1896	Alvin W. Haynes	Somerville	Captain	"Cristobal."
1896	Henry R. Bodge	Wollaston	Captain	– –
1896	Geo. R. Lauriat	Ft. Moultrie	Captain	"Gen. Brannan."
1897	H. W. G. Atkins	Reading	Captain	– –
1897	Mina Dailey	Rockport	Captain	"Harwood."
1898	*Louis E. Congdon	Boston	Captain	"Swift Eagle."
1898	*Carl E. A. Anderson	Brooklyn	Captain	"Missourian."
1898	Eldon G. Freeman	Whitman	Captain	Chief Pilot, San Francisco.
1899	George F. Waite	Winthrop	Captain	United States Shipping Board.
1899	Walter S. Lynch	Chelsea	Captain	– –
1900	*James S. Howes	Pawtucket	Captain	"Arcturus."
1900	*Winthrop R. Cutts	Stoneham	Captain	– –
1900	*E. Newton Parker	Greenfield	Captain	– –
1900	William B. Knight	Bellingham	Captain	"Catherine D."
1900	Alfred M. Cummings	Worcester	Captain	"Lancaster."
1900	I. Clarence Bailey	Kingston	Captain	Boston Pilot Boat Service.
1901	Charles D. Harrington	Boston	Captain	"Joseph R. Parrott."
1901	Robert W. Tucker	Kendal Green	Captain	"Panaman."
1902	*A. Russell Cushing	Allston	Captain	– –
1902	*Arthur T. Luther	Swansea	Captain	Pilot, Panama Canal.
1902	Osborn E. McKay	Sagamore	Captain	Pilot, Panama Canal.
1902	*Edwin J. Madden	Clifton, N. J.	Captain	"Cody."
1902	*Fred C. Seibert	Greenfield	Captain	"Seekonk."
1903	Benj. O'Connell	Peabody	Captain	"Wheeling Mold."
1903	*Harry M. Bostwick	Northbridge	Captain	"Suspearco."
1904	*Edward C. Roberts	No. Beverly	Captain	"Carrillo."
1905	*Harold H. Gridley	Dorchester	Captain	"Darden."
1905	*James A. Crocker	Nahant	Captain	"F. R. Gordon."
1906	*William H. Lee	Malden	Captain	"Sagaporac."
1906	*George C. Bosson	Reading	Captain	"James S. Whitney."
1907	*Elmer B. Small	Reading	Captain	"Agwiworld."
1907	Frazier L. Sears	E. Dennis	Captain	"Bramell Point."
1907	Frederick L. Gainard	Chelsea	Captain	Atlantic Coast Pilot.
1908	*Eugene P. Shevlin	East Boston	Captain	"Ala."
1908	Chester B. Mellen	Quincy	Captain	– –
1908	*Edward S. Ells, Jr.	Haverhill	Captain	Emergency Fleet Corporation.
1909	Harold C. Cooper	Worcester	Captain	"Polarine."
1909	*Carroll E. Higgins	Somerville	Captain	"Mount Carroll."
1909	*Eric E. Winquist	Mattapan	Captain	– –
1909	William A. Sillars	Danvers	Captain	"L. J. Drake."
1910	*Chester E. Morris	Brooklyn	Captain	– –
1911	*Wesley F. Besse	Somerville	Captain	– –
1911	*Harold S. Dexter	Mattapoisett	Captain	– –
1911	*Henry O. K. Hanson	Neponset	Captain	– –
1911	*Raymond C. Vose	Norfolk	Captain	"West Tacook."
1911	*Eugene W. Miller	E. Saugus	Captain	"Western Glen."
1912	*Clarence L. Howard	Wellesley	Captain	– –
1912	Russell A. Eastman	Mattapoisett	Captain	"Rotarian."
1912	*Albert H. Acorn, Jr.	Malden	Captain	"Bonita VI."
1913	Philip J. Fanning	Baltimore	Captain	"Deer Lodge."
1913	*Everett O. Swinson	E. Gloucester	Captain	– –
1913	*Borden A. Tuell	New Bedford	Captain	"Jacona."
1913	*Ralph W. Dearborn	Mansfield	Captain	"Alloway."
1913	*John A. Maddock	Newburyport	Captain	– –
1914	John L. Kirchner	Hinsdale	Captain	New York, New Haven & Hartford Railroad tugs.
1914	David H. Swinson	Gloucester	Captain	"Lake Flattery."
1914	Nelson T. Nutter	Newburyport	Captain	"Chamblee."
1914	*Geoffrey C. O'Donoghue	Roxbury	Captain	U. S. Custom Service.
1915	Albert V. Jones	Fall River	Captain	"Pinthis."
1915	Charles N. Bamforth	Swampscott	Captain	"Arizonan."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1915	*Leland M. Marshall	Allston	Captain	"Advance."
1915	Harold F. Craven	Lawrence	Captain	"Gulfland."
1915	*Charles E. Griffith	Cambridge	Captain	– –
1916	*William E. Lord	Springfield	Captain	"Major Wheeler."
1916	John A. Rylander	Springfield	Captain	"Steel Trader."
1916	Clayton W. Collins	Waquoit	Captain	"Baytown."
1918	James E. Fraser	Boston	Captain	– –
1919	Harold T. Longmore	Stoneham	Captain	– –
1920	Francis X. Landrey	Roslindale	Captain	"Suboatco."
1894	James E. Reardon	Roxbury	First officer	"Levisa."
1895	Harold W. Davis	Somerville	First officer	"Cottonwood."
1897	*Herbert P. Smith	Nantucket	First officer	– –
1898	*Charles H. Kilmer	Somerville	First officer	"West Zeda."
1899	George W. Stetson	Somerville	First officer	"Sujerseyco."
1900	Clayton G. Parsons	Salem	First officer	"West Cape."
1902	*Arthur P. Jensen	Provincetown	First officer	– –
1906	*Lewis B. Butler	Worcester	First officer	"Lake Fear."
1907	Philip B. Marcy	Brookline	First officer	"Ameland."
1908	*Ernest F. Robinson	Greenville	First officer	"Cleveland."
1912	*Herbert A. Burns	New Bedford	First officer	– –
1912	*Ralph E. Merithew	Haverhill	First officer	– –
1912	*Kenneth E. Cahoon	W. Tisbury	First officer	"Aurora."
1912	*Joseph M. Daniel	Osterville	First officer	– –
1912	*Ellenwood Folger	Siasconset	First officer	"Benj. Brewster."
1913	James A. MacCabe	Osterville	First officer	– –
1913	*Philip H. Waldron	E. Milton	First officer	"Coahoma County."
1913	*Frederick L. Howland	So. Dartmouth	First officer	"Western Ally."
1913	*Waldon A. McIntire	E. Gloucester	First officer	"Martha Washington."
1914	*Samuel J. Lee	Malden	First officer	"Kerhonkson."
1914	Edward F. Murphy	Fall River	First officer	"Lewis Luckenbach."
1914	*Gerard R. Crosby	Orleans	First officer	"Minnesotan."
1914	James A. Stowell	Walpole	First officer	"Yucatan."
1915	*Ralph S. Moore	New York	First officer	"Steel Mariner."
1915	*Arthur A. Hovgaard	Brookline	First officer	"West Raritans."
1915	Ronald B. Ford	Lawrence	First officer	"Yukon."
1915	*William C. Davenport	New Bedford	First officer	"Minnekahda."
1915	Earle D. Hammond	E. Mattapoisett	First officer	– –
1915	Edward R. Rhodes	Lowell	First officer	"Edward L. Doheny."
1915	*Herman S. Mayo	Provincetown	First officer	"Fairmont."
1916	*Peter J. Jakmauh	South Boston	First officer	"West Inskip."
1916	*John T. Crowell, Jr.	Gloucester	First officer	"West Keene."
1916	*Richard H. Dunphe	Brockton	First officer	"Victorious."
1916	*Randall F. Elder	Brighton	First officer	"Eastern Crown."
1916	*J. Prescott Mahoney	W. Wareham	First officer	"Bristol."
1916	Harold R. Congdon	Somerville	First officer	"Amoloco."
1916	*Thomas B. Lufkin	Gloucester	First officer	"Katahdin."
1916	Charles A. Martell	Somerville	First officer	"Montgomery City."
1916	*Edwin T. Fletcher	Springfield	First officer	"Wheaton."
1917	Alton E. Borden	Fall River	First officer	– –
1917	Stanley F. Roberts	Springfield	First officer	– –
1917	A. Henry Rowe	Roslindale	First officer	"Currier."
1917	Ivan Freeman	E. Orleans	First officer	"Ossaban."
1917	Luther C. Kingsbury	Wellesley	First officer	"Riverside Bridge."
1918	Hartley Hoffses	Quincy	First officer	"Hickman."
1918	Alden L. Strout	Boston	First officer	"Excelsior."
1918	Max Distelman	Newburyport	First officer	"Lackawanna Bridge."
1918	William S. Reagh	Wakefield	First officer	"Steel Traveler."
1918	G. Minard Cunningham	Lawrence	First officer	– –
1918	Jacob Popkin	Malden	First officer	"Yuka."
1918	Leonard C. Walen	Gloucester	First officer	"Deuel."
1918	Ira D. Dean	So. Natick	First officer	"Limon."
1919	Charles F. Bossom	Arlington	First officer	"Macerata."
1920	Erwin F. Colburn	Somerville	First officer	"San Jose."
1920	*J. Francis Devlin	Salem	First officer	"President Monroe."
1920	*David F. Atwood	W. Falmouth	First officer	"Kershaw."
1921	George J. Lavin	Melrose	First officer	– –
1922	Carroll P. Burgess	Plymouth	First officer	"Swift Eagle."
1922	Vincent F. J. Hancock	Fall River	First officer	"Frank A. Morey."
1894	Alfred J. O'Leary	Worcester	Second officer	"Adacia."
1902	*George Castle	Lynn	Second officer	"Lake Fanning."
1904	Leslie F. Holmes	Whitman	Second officer	– –
1904	*Andrew J. Iverson	Beverly	Second officer	"Newton."
1904	*Charles H. Stoddard	Brookline	Second officer	– –
1906	John Ruyter	Rochester	Second officer	"Lake Ellio."
1907	Herbert Garity	Boston	Second officer	"Dorothy."
1910	Franklin K. Tyler	Beachmont	Second officer	"Saramacca."
1912	Harold L. Winslow	Canton	Second officer	"America."
1913	Frederick A. Stainforth	Winthrop	Second officer	"Panaman."
1913	John W. Crocker	Nahant	Second officer	"Western Spirit."
1913	Wilfred H. Senior	Dorchester	Second officer	– –
1914	*Joseph L. Turner	Amherst	Second officer	– –

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1914	Ten Eyck H. Reed	S. Framingham	Second officer	"West Loquassuck."
1914	*William H. Fogarty	Dorchester	Second officer	"Afoundria."
1914	Laurence L. Horton	Eastham	Second officer	"Prince Frederick."
1915	*Russell C. Damon	Hingham	Second officer	"Lake Ellsbury."
1915	*Curtis C. Fales	Westborough	Second officer	"Malabar."
1915	*Charles P. Jacobson	Everett	Second officer	"Oskawa."
1915	Sidney F. Nichols	Worcester	Second officer	"Malden."
1915	Russell L. Saunders	Allston	Second officer	– –
1916	*Frank M. Perrin	Worcester	Second officer	– –
1916	Clifford E. Stanley	Salem	Second officer	– –
1916	Paul H. Browne	West Roxbury	Second officer	"Eagle."
1916	Fred E. Wilcox	Indian Orchard	Second officer	– –
1917	*Percie A. Crosby	Everett	Second officer	"Chester Valley."
1917	*Earl S. Francis	Athol	Second officer	– –
1917	*William M. Preston	Beverly	Second officer	– –
1917	Charles F. Huffman	W. Somerville	Second officer	"West Hambrie."
1917	*Frank M. Moore	Forest Hills	Second officer	Ferry Service, Boston.
1917	*Bradford S. Wilson	Brookline	Second officer	– –
1917	Donald MacWhinnie	New Bedford	Second officer	"Sinsinawa."
1917	David M. McLaren	Dedham	Second officer	"Finland."
1918	Raphael W. Hill	Provincetown	Second officer	"Agwismith."
1918	Arthur B. Gibbs	Nantucket	Second officer	"Houston."
1918	Geo. R. Stockbridge	Wellesley	Second officer	"Anacortes."
1918	Wilbur W. Woods	Provincetown	Second officer	"Elmsport."
1918	James R. Moore	Lexington	Second officer	"Lake Sunapee."
1918	James J. Crowley	No. Abington	Second officer	– –
1918	James H. Lowry	Canton	Second officer	"Lake Ellesmere."
1918	Gerald K. Sanborn	Lawrence	Second officer	– –
1919	Richard F. Nickerson	So. Duxbury	Second officer	"Henry Groves."
1919	John J. Mahoney	Revere	Second officer	"Swift Wind."
1919	William B. Studley	Fairhaven	Second officer	"Steel Exporter."
1919	Harry E. Hopkins	No. Eastham	Second officer	"William Green."
1919	Ernest B. Waters	Nahant	Second officer	"Levisa."
1919	William H. Moulton	Bedford	Second officer	"F. J. Luckenbach."
1919	Charles W. Torrey	Rockland	Second officer	"Ohioan."
1919	Charles E. Gilman	Somerville	Second officer	"Everett."
1919	Francis J. Harrington	Revere	Second officer	"Swift Eagle."
1919	Harry C. Lord	Springfield	Second officer	– –
1919	Alfred A. Needham	Manchester	Second officer	"Loyal Legion."
1920	George P. Lord	Salem	Second officer	"President Monroe."
1920	William S. Tyrrell	Cambridge	Second officer	"Panama."
1920	Ralph I. Colson	Everett	Second officer	"Dakotan."
1920	Francis E. Donnelly	Roslindale	Second officer	"Jonancy."
1920	*Oswald J. Griffin	Fall River	Second officer	"Imlay."
1921	Theodore W. Marvin	Roxbury	Second officer	"Tuscaloosa."
1921	Charles G. Foster	Dennis	Second officer	"Ipswich."
1921	J. Blaisdell Wells	Medford	Second officer	"Montanan."
1921	Lawrence T. Sullivan	E. Boston	Second officer	"M. & J. Tracy."
1921	Edward F. Sise	W. Medford	Second officer	"Schoodic."
1921	Alphonsus J. Godfrey	Roxbury	Second officer	"West Faraday."
1922	William C. Mahoney	Somerville	Second officer	"Bayway."
1922	Arthur O. Brady	Rockland	Second officer	"Oregonian."
1922	Kenneth C. Mayo	Provincetown	Second officer	– –
1922	Malcolm O. Sillars	Danvers	Second officer	– –
1923	John E. Handran	Rockport	Second officer	"Ardmore."
1923	Duncan S. Baker	Manchester	Second officer	"Panaman."
1923	George R. Hickey	Rockland	Second officer	"Lancaster."
1923	George J. Andrews	Winthrop	Second officer	"Edward L. Doheny."
1923	Maurice L. Whelan	Whitman	Second officer	"Nebraskan."
1905	*Laurence G. Kelley	Taunton	Third officer	– –
1912	Francis J. McGowan	Somerville	Third officer	"Lake Grampus."
1913	*Oliver P. Shattuck	West Acton	Third officer	"Reliance."
1914	*Samuel A. Gates	Malden	Third officer	"Oregonian."
1916	*Albert Bianchi	Worcester	Third officer	– –
1916	*Byron H. Paine	New Bedford	Third officer	"Minnekahda."
1917	Herbert W. Sussman	Dorchester	Third officer	"Leviathan."
1918	*Edgar G. Glines	Beverly	Third officer	"Roanoke."
1918	Raymond P. Abbott	Newburyport	Third officer	"Sinsinawa."
1919	Sherman W. Reed	Lexington	Third officer	"Leviathan."
1919	Frederick T. DeLeskey	E. Boston	Third officer	"Corsica."
1919	Jack A. Fraser	Lowell	Third officer	"Missourian."
1919	Roy D. Hall	Dennis	Third officer	"Swift Light."
1919	John W. Donahoe	Dorchester	Third officer	"Lake Larabee."
1919	*Harold B. Wilkinson	Lynn	Third officer	"Lake Galando."
1919	*Nelson E. Gardiner	Fitchburg	Third officer	"West Ceba."
1919	George A. Henderson	Brighton	Third officer	– –
1919	Robert S. O'Brien	Malden	Third officer	"Carlton."
1919	Walter W. Jenness	Malden	Third officer	"City of Atlanta."
1920	Daniel J. Coughlin	Lowell	Third officer	– –
1920	*Fred M. Full, Jr.	Rockport	Third officer	– –
1920	*Noble M. Hartley	Winthrop	Third officer	"Lake Fagundas."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1920	Mortimer P. O'Sullivan	W. Medford	Third officer	"Schoodic."
1920	*Laurence R. Jacques	Springfield	Third officer	"Mevania."
1920	*Fred C. B. Steinmetz	Springfield	Third officer	"Winona."
1920	Theodore Collins	Milton	Third officer	"Springfield."
1920	*Joseph G. Dean	Springfield	Third officer	"Astmahco."
1920	*Chas. A. Freeman, Jr.	Taunton	Third officer	"Lake Foch."
1920	Roger W. Clarke	Auburndale	Third officer	"Minnesota."
1920	*Richard B. Taylor	W. Somerville	Third officer	"Romulus."
1920	*Ralph E. Tilton	Fitchburg	Third officer	"Crawl Keys."
1920	John F. Hannan	Mattapan	Third officer	"Egremont."
1920	Charles R. Clarke	Lynn	Third officer	"Minnesotan."
1920	Alex. M. S. Paddock	Cambridge	Third officer	"Morristown."
1920	Raymond A. Bowen	Gloucester	Third officer	"Red Mountain."
1921	Roger J. O'Sullivan	W. Medford	Third officer	"Steel Traveler."
1921	John A. Robertson	Boston	Third officer	"Pennsylvanian."
1921	George A. Perkins	No. Carver	Third officer	"M. & J. Tracy."
1921	Philip W. Atkinson	Fitchburg	Third officer	– –
1922	Edward C. Beatson	Ludlow	Third officer	– –
1922	Edwin S. Baker	Manchester	Third officer	"Cold Harbor."
1922	John F. Mulvey	Roslindale	Third officer	"West Calumb."
1922	Webster G. Farrell	Dorchester	Third officer	"Esparta."
1922	George Worth	Cambridge	Third officer	"Harwick Hall."
1922	Robert M. Pierce	Rockport	Third officer	"Ohioan."
1922	Scranton H. Redfield	Lynn	Third officer	"Deuel."
1923	William T. Corfield	Roxbury	Third officer	"C. A. Snyder."
1923	Roy W. Chamberlain	E. Lynn	Third officer	"President Adams."
1923	Gerald P. Coleman	Melrose	Third officer	"West Harcuvar."
1923	John E. Wade	Amesbury	Third officer	"Oneida."
1923	Richard E. Pendleton	Bryantville	Third officer	"Santa Cruz."
1924	James W. O'Brien	Springfield	Third officer	"Edward L. Doheny."
1924	Edward B. Ellis	Walpole	Third officer	"Montpelier."
1924	John F. Doyle	Holyoke	Third officer	"Georgian."
1924	Sydney Blackledge	Pottersville	Third officer	– –
1924	Ralph E. Jernberg	Worcester	Third officer	"Mauna Ala."
1924	Joseph H. Masse	Everett	Third officer	"Kentuckian."
1925	James E. Walsh	Watertown	Third officer	"Coastwise."
1925	Winslow M. Rouse	Roxbury	Third officer	"Fairfield City."
1924	Robert S. Gale	Watertown	Fourth officer	– –
1925	Albert B. Rich	Atlantic	Fourth officer	"Kentuckian."
1925	Paul L. Litchfield	Dracut	Third officer	"The Lambs."
1918	Harold S. Damon	Plymouth	Junior officer	"George Washington."
1915	David P. Delano	Orleans	Harbor Master	Clyde and Mallory Lines.
1900	*Hollis M. Cornwall	Melrose	Division Superintendent	Merchants and Miners Transportation Co.
1907	Paul R. Smith	Brooklyn	Superintending engineer	Roosevelt Steamship Co.
1905	Charles F. Tarr	Taunton	Port engineer	United States Shipping Board, Philadelphia, Pa.
1901	Sidney A. Maglathlin	W. Bridgewater	Supervising engineer	– –
1895	Michael D. Sullivan	San Francisco	Chief engineer	"Rosecrans."
1896	*James H. B. Meehan	Lowell	Chief engineer	– –
1898	Charles E. Perry	Hyde Park	Chief engineer	"Bibbco."
1898	Frank P. Killion	Malden	Chief engineer	"Kilauea."
1898	William E. Ballsdon	Neponset	Chief engineer	"Herman Winter."
1898	Wilbur S. Lamont	Leominster	Chief engineer	"West Hargrave."
1898	*Everett S. Ransom	E. Mattapoisett	Chief engineer	– –
1898	Charles E. Rowe	Lynn	Chief engineer	– –
1898	*John C. Ganser	Jersey City	Chief engineer	"Bird City."
1900	*Charles E. Lowe	Roxbury	Chief engineer	"Eastern Trader."
1900	Elmer P. Butterworth	Port Arthur	Chief engineer	"West Celina."
1901	*Eugene I. K. Murphy	New York	Chief engineer	– –
1901	*Robert A. Patterson	Cambridge	Chief engineer	– –
1902	Daniel F. Butler	Waltham	Chief engineer	"Gloria."
1903	James S. McGarry	New York	Chief engineer	"El Alba."
1903	*Edmund E. Powers	Cambridge	Chief engineer	"Texarkana."
1904	Charles W. Bumpus	Wareham	Chief engineer	"City of Gloucester."
1904	*Cecil L. McIntyre	Ashmont	Chief engineer	"Olen."
1905	*Fred G. Carlton	Maynard	Chief engineer	"H. D. Morse."
1906	*Augustus C. Caldwell	Dorchester	Chief engineer	– –
1906	Victor M. Foster	Revere	Chief engineer	– –
1906	Bradford N. A. Gladding	Newport	Chief engineer	– –
1906	*Arthur G. Burbank	Carver	Chief engineer	– –
1907	*George H. Stickney	Watertown	Chief engineer	– –
1907	*Samuel P. Osgood	Middleborough	Chief engineer	"Bessemer City."
1907	*Archie E. Bragg	New Bedford	Chief engineer	– –
1908	*Thomas B. Pellett	Worcester	Chief engineer	– –
1909	*Everett B. Ward	New York	Chief engineer	– –
1909	William A. Sullivan	East Boston	Chief engineer	Mine sweeper.
1909	*Leo A. Keating	Natick	Chief engineer	"F. J. Luckenbach."

Officers in the Merchant Marine — Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1909	Richard K. Henry	Pittsfield	Chief engineer	"Silverbrook."
1909	*Samuel J. Miller	Fall River	Chief engineer	"Lehigh."
1910	George W. Sibley	Worcester	Chief engineer	"Geo. W. Barnes."
1910	R. Wilbur Anderson	Mattapan	Chief engineer	"Passaic Bridge."
1911	*Robert F. Phinney	Mattapan	Chief engineer	"Matinicock."
1911	John P. Lundergan	Brockton	Chief engineer	"Julia Luckenbach."
1911	Harvey M. Thorndike	Cliftondale	Chief engineer	"El Capitan."
1912	William A. Hamilton	Cliftondale	Chief engineer	– –
1912	Richard K. O'Connell	North Easton	Chief engineer	"Nelson."
1912	*John M. Marks	Gloucester	Chief engineer	"Burnwell."
1912	*Richard J. Cavanaugh	New Bedford	Chief engineer	"Agwipond."
1914	*Arthur C. Goodwin	Somerville	Chief engineer	"Caspar."
1915	*Philip J. Durney	Gloucester	Chief engineer	"Gloucester."
1917	*John D. Noonan	Mansfield	Chief engineer	"Yaklok."
1918	John R. Donlin	Medford	Chief engineer	– –
1919	Warren L. Bailey, Jr.	Worcester	Chief engineer	– –
1897	Augustus T. Holmes	Ipswich	First assistant engineer	"J. M. Guffy."
1900	Earle P. Marshall	No. Easton	First assistant engineer	"Lake Buckeye."
1901	*Ernest E. Sackett	Lynn	First assistant engineer	"Wampum."
1902	Augustus W. Hart	No. Truro	First assistant engineer	– –
1904	*Benj. L. Welch	Lynn	First assistant engineer	"Eastern Chief."
1904	Edward J. Chadbourne	Reading	First assistant engineer	– –
1904	William Stewart	Charlestown	First assistant engineer	– –
1907	*Joseph R. Wier	Saundersville	First assistant engineer	"Mexican."
1909	*William E. Caddigan	Dorchester	First assistant engineer	– –
1909	Fritz T. Kebler	Rochdale	First assistant engineer	"Henry F. Dimock."
1910	Leslie S. Badger	Norfolk, Va.	First assistant engineer	"Galveston."
1910	Harold C. Grover	Stoneham	First assistant engineer	"Nobles."
1912	Louis H. Racicot	W. Somerville	First assistant engineer	"Paul H. Harwood."
1913	Paul S. Rice	Cambridge	First assistant engineer	"Arlington."
1913	Russell A. McLay	Providence	First assistant engineer	"Currier."
1914	Leslie T. Severance	Cambridge	First assistant engineer	"Malden."
1914	Fred H. Brewster	Somerville	First assistant engineer	– –
1914	Benj. H. Allen, Jr.	Lawrence	First assistant engineer	"Cambrai."
1914	James A. Sweeney	E. Boston	First assistant engineer	– –
1914	Charles P. Tucker	Boston	First assistant engineer	"Northern Wave."
1915	Stanislaus P. J. Ciolkosz	Taunton	First assistant engineer	"Deuel."
1915	*Roy C. Hartwell	New York	First assistant engineer	"Arizonan."
1915	Arthur F. Higgins	Lawrence	First assistant engineer	"Castlewood."
1915	*Clarence E. Stevens, Jr.	W. Barnstable	First assistant engineer	– –
1915	*Bernhardt Gerecke	Boston	First assistant engineer	– –
1915	Arvid H. Winquist	Mattapan	First assistant engineer	"Lake Forney."
1916	*Henry A. Guba	New Bedford	First assistant engineer	"Lake Benton."
1916	*John E. Pilkington	Mansfield	First assistant engineer	"Mobile City."
1916	*Paul Gorman	Marlborough	First assistant engineer	"Chickasaw City."
1916	*Carl E. Berglund	Brockton	First assistant engineer	"Toledo."
1916	*Alex. J. Phillips	Easton	First assistant engineer	"Boundbrook."
1917	Arthur Massey	N. Andover	First assistant engineer	"Conshohocken."
1917	Ernest E. Raby	No. Easton	First assistant engineer	"Liberty Minquist."
1917	*Arthur D. Murphy	Beverly	First assistant engineer	– –
1918	Raymond H. Sample	Montello	First assistant engineer	"Swiftsure."
1919	Guy M. Hanna	Waltham	First assistant engineer	"Bogata."
1919	Loran H. Sanford	Beverly	First assistant engineer	"F. Q. Barstow."
1919	Roger N. Walcott	Concord	First assistant engineer	"Swiftarrow."
1919	Edward H. Morin	Stoneham	First assistant engineer	"Eastern King."
1919	John D. Cunningham	Quincy	First assistant engineer	"Mevania."
1921	Gerald D. Murphy	Campello	First assistant engineer	– –
1921	Frederick L. Murphy	Roxbury	First assistant engineer	"Agwisea."
1897	Perley W. Kimpton	Somerville	Second assistant engineer	"Shawmut."
1903	Harold A. Thompson	S. Framingham	Second assistant engineer	– –
1904	*William A. Danforth	Dorchester	Second assistant engineer	– –
1908	Arthur E. Whiton	Greenwood	Second assistant engineer	"Norwood."
1909	*Frederick H. H. Sylvia	Nantucket	Second assistant engineer	– –
1910	William Bowen	Boston	Second assistant engineer	"Bunker Hill."
1911	David J. Fulton	Wollaston	Second assistant engineer	"Pluto."
1911	George L. Lockhart	Wakefield	Second assistant engineer	"Orion."
1911	*Alfred Marques	Charlestown	Second assistant engineer	– –
1911	Samuel D. White	Hyannisport	Second assistant engineer	"Edward Pierce."
1912	George R. Davison	Springfield	Second assistant engineer	"Ancon."
1912	Walter L. Brewster	Somerville	Second assistant engineer	Black Diamond Corporation.
1913	*Charles J. Balboni	New Bedford	Second assistant engineer	"Bessemer."
1913	Edward J. Fogarty	E. Boston	Second assistant engineer	"Ockenfels."
1914	*G. Harold Peterson	Norwood	Second assistant engineer	– –
1914	Joseph L. Concannon	So. Boston	Second assistant engineer	"Brindella."
1915	*John Holmes	Campello	Second assistant engineer	– –
1915	*Sherman J. Barrett	Lawrence	Second assistant engineer	– –
1916	*William W. Thomas	Concord	Second assistant engineer	– –
1916	*Joseph P. Condrey	Lowell	Second assistant engineer	– –
1916	*Harold W. Sanford	Springfield	Second assistant engineer	– –
1917	*Ernest C. Jensen	Provincetown	Second assistant engineer	"Lydia."

Officers in the Merchant Marine — Concluded.

Year.	Name.	Residence.	Position.	Vessel or Service.
1917	Herbert A. James	Wellesley Farms	Second assistant engineer	"Lake Lida."
1917	*John T. Foye	Bridgewater	Second assistant engineer	– –
1917	Dwight W. Boyd	Randolph	Second assistant engineer	"Lake Ellendale."
1918	Joseph Freeman	Revere	Second assistant engineer	"Artegas."
1918	Elmer J. Kelley	Springfield	Second assistant engineer	"Lake Grogan."
1918	Stuart R. Colson	Whitman	Second assistant engineer	"O. T. Waring."
1918	Leroy E. Lowey	Woods Hole	Second assistant engineer	"Swiftwind."
1918	Francis J. Easton	Randolph	Second assistant engineer	"Branbrinno."
1918	Louis H. Johnson	Andover	Second assistant engineer	"Lake Sapor."
1919	Thomas F. Cotter	Lawrence	Second assistant engineer	– –
1919	Frank J. Couble	Brockton	Second assistant engineer	"Pocahontas."
1920	Arthur G. Berteaux	Norfolk	Second assistant engineer	– –
1920	John L. Flanagan	Lawrence	Second assistant engineer	"Imlay."
1920	John D. Young	Winthrop	Second assistant engineer	"President Van Buren."
1921	Albert I. Pilkington	Mansfield	Second assistant engineer	"Mobile City."
1922	Lloyd M. Johnson	Brighton	Second assistant engineer	"San Mateo."
1922	Roy Y. Gordon	Somerville	Second assistant engineer	"West Kedron."
1922	George J. Jung	Medford	Second assistant engineer	– –
1922	Richard W. Norcross	Needham	Second assistant engineer	"Esparta."
1923	Michael S. Fila	Bradford	Second assistant engineer	"Beaconoil."
1923	Elmer H. Bridge	Fall River	Second assistant engineer	"Swift Light."
1923	John A. Hey	Lawrence	Second assistant engineer	"Mary."
1924	Daniel C. Seed	Adams	Second assistant engineer	– –
1924	Edmond P. Martin	Lynn	Second assistant engineer	"Commercial Scout."
1904	Thomas F. Gosnay	Wakefield	Third assistant engineer	– –
1907	Charles S. McDonald	Malden	Third assistant engineer	– –
1911	Walter P. Lynn	Beverly	Third assistant engineer	"Lake Copley."
1911	Joseph C. Chisholm	No. Billerica	Third assistant engineer	– –
1911	*Levi E. MacLeod	Gloucester	Third assistant engineer	– –
1913	*Nils J. Peterson	Brockton	Third assistant engineer	– –
1915	*Wilfred C. Herron	Lawrence	Third assistant engineer	– –
1916	Carleton G. Reed	Lexington	Third assistant engineer	– –
1916	Richard A. Standley	Beverly	Third assistant engineer	"Lake Benton."
1917	Philip H. Little	Holbrook	Third assistant engineer	"Lake Forney."
1918	John R. Carden	Haverhill	Third assistant engineer	"Lake Fernwood."
1918	Ralph A. Evers	Somerville	Third assistant engineer	"Swift Eagle."
1918	Karl W. Newman	Brockton	Third assistant engineer	"De Soto."
1919	George C. Clements	Lynn	Third assistant engineer	"Vanguard."
1919	Carl W. Holmes	No. Easton	Third assistant engineer	"City of Rome."
1919	Charles B. Mitchell	Lawrence	Third assistant engineer	"Malden."
1919	Harding Smith	Nantucket	Third assistant engineer	"Floridian."
1919	James F. Beatty	Lowell	Third assistant engineer	"Durango."
1920	Lorenzo C. Brown	Everett	Third assistant engineer	"Resolute."
1920	James N. Oldroyd	Lynn	Third assistant engineer	"Lake Butler."
1920	Earle F. Clegg	Worcester	Third assistant engineer	"Puget Sound."
1920	Robert D. Mariner	Cambridge	Third assistant engineer	– –
1920	Ralph B. Warner	Marlborough	Third assistant engineer	– –
1920	*Joseph H. Donahue	Lawrence	Third assistant engineer	Gulf Refining Co.
1920	Chesley L. Kenyon	Huntington	Third assistant engineer	"Maddegat."
1922	Lawrence E. Dorgan	Brockton	Third assistant engineer	– –
1922	W. Ernest Geddes	Attleboro	Third assistant engineer	"West Kedron."
1922	Louis F. Harlow	North Easton	Third assistant engineer	"W. A. McKenney."
1922	Frederick W. Mahoney	Somerville	Third assistant engineer	"Manchuria."
1923	Lorenzo H. Smith	No. Easton	Third assistant engineer	– –
1923	Frederick N. Dodd	E. Lynn	Third assistant engineer	"Arcturus."
1923	Arthur F. Cole	W. Lynn	Third assistant engineer	"Wabash."
1923	Thomas F. Fairbrother	N. Billerica	Third assistant engineer	"Seattle Spirit."
1923	Augustin P. Heffron	Marlborough	Third assistant engineer	"Ossage."
1923	Edmond M. Hourigan	Dorchester	Third assistant engineer	"Penobscot."
1923	Alfred Humphries	Salem	Third assistant engineer	"Thomas P. Beal."
1924	Aubrey C. Allen	Marlborough	Third assistant engineer	"Imlay."
1924	Paul W. Anderson	N. Easton	Third assistant engineer	– –
1924	James A. MacDonald	Tewksbury	Third assistant engineer	"Herbert G. Wylie."
1924	Ellery H. Capen	New Bedford	Third assistant engineer	– –
1924	Ralph L. Langille	South Boston	Third assistant engineer	"Meteor."
1924	Edwin S. Evans	Paxton	Third assistant engineer	"Hoxbar."
1925	Houghton L. Cummings	W. Newton	Third assistant engineer	– –
1925	Folke C. Johnson	North Easton	Third assistant engineer	"Lake Fernando."
1925	Joseph D. Barnicle	Waltham	Third assistant engineer	"Plymouth."
1925	John E. Reagan	Fall River	Third assistant engineer	"Middlesex."
1925	Paul W. Fellows	Reading	Third assistant engineer	"Louis K. Thurlow."
1925	Joseph W. MacDiarmid	Mansfield	Third assistant engineer	"Redman."
1925	Richard G. Aaron	Allston	Third assistant engineer	– –
1923	Walter C. Bathelt	Holyoke	Fourth assistant engineer	"San Bruno."
1924	Norman S. Gilchrist	Cambridge	Fourth assistant engineer	"West Kebar."
1924	William J. Moran	Millis	Fourth assistant engineer	"West Kedron."

Special Employment with the General Electric Company.

Marine Department.

[Honor Engineer Graduates.]

Year.	Name.	Residence.	Position.	Vessel or Service.
1924	Earle B. Downing	East Lynn	Special employment	General Electric Co.
1924	Albert R. Henreckson	Sharon	Special employment	General Electric Co.
1925	Laurence B. Swann	No. Adams	Special employment	General Electric Co.
1925	Acer N. Hilbourne	Cliftondale	Special employment	General Electric Co.

Ship Construction.

1895	Charles H. Lincoln	Detroit, Mich.	Marine surveyor and inspector.	- -
1916	*Howard U. Chase	Nantucket	Superintendent	South Beach Boat Co., Nantucket.
1901	David W. Warren	Everett	Master mechanic	Curtis Bay Copper Iron Works.
1903	Edward J. Hogan	Charlestown	Assistant superintendent	- -
1909	Stanton Haversham	Bridgeport	Hull draftsman	Lake Torpedo Boat Co.
1911	Henry W. Ober	Everett	Electrician	Fore River Shipbuilding Co.
1912	Joseph B. Sylvaro	Dorchester	Electrician	Fore River Shipbuilding Company.
1902	Edw. J. Campbell	Dorchester	Engineman	Navy Yard, Boston.
1905	Reginald W. Burdekin	Northampton	Induction motors	General Electric Co.
1923	Alfred Humphries	Salem	Assistant foreman	General Electric Co.
1924	Percy J. Lewis	Lynn	Turbine department	Fore River Shipbuilding Co.

Instructors.

1909	*Ervin L. Kelley	Dorchester	Chief engineer	U. S. S. "Nantucket."
1912	*Norman E. Merrill	Cambridge	Executive officer	U. S. S. "Nantucket."
1917	Sydney L. MacLaughlin	Lexington	Navigator	U. S. S. "Nantucket."
1922	Herbert A. Beaumont	Dorchester	Watch officer	U. S. S. "Nantucket."
1922	John D. Bosler	Holyoke	Assistant engineer	U. S. S. "Nantucket."

The United States Navy.

1906	*Howard G. Copeland	Malden	Commander, U. S. N. R.	U. S. Navy Yard, Boston, Mass.
1907	Thomas Baxter	So. Dennis	Lieutenant commander	Navy Yard, Boston.
1898	Herbert E. Fish	Charlestown	Lieutenant	U. S. S. "Rigel."
1898	Clarence E. Wood	Fall River	Lieutenant commander (Ret.)	- -
1898	James H. Willey	California	Lieutenant commander	"Hazelwood."
1902	John F. Murphy	Worcester	Lieutenant	U. S. Navy Yard, Boston.
1910	Russell H. Sullivan	Westfield	Lieutenant (Junior grade)	- -
1906	William R. Dolan	Worcester	Lieutenant (Junior grade)	U. S. S. S-21.
1916	Darrough S. Gurney	Marion	Lieutenant (Junior grade)	U. S. S. S-20.
1917	Philip G. Nichols	Peabody	Lieutenant (Junior grade)	U. S. S. S-30.
1922	Eliot Olsen	Milton	Midshipman	United States Naval Academy.
1906	Carroll L. Morgan	Beverly	Gunner	U. S. S. "Oklahoma."
1899	Leroy Neil	Lynn	Chief machinist	U. S. S. "Colorado."
1914	James A. Sweeney	E. Boston	Chief machinist	U. S. Navy Yard, Boston.
1920	Joseph H. Flanagan	Lawrence	Machinist	U. S. Navy Yard, Portsmouth, N. H.

The United States Marine Corps.

1903	Leander A. Clapp	Brockton	Major	Marine Barracks, Boston.
1906	Clarence E. Nutting	Washington	Major	Santo Domingo, D. R.

The United States Coast Guard Service.

Year.	Name.	Residence.	Position.	Vessel or Service.
1895	Philip W. Lauriat	Medford	Lieutenant commander	"Yumacraw."
1896	Webb C. Maglathlin	Bridgewater	Lieutenant commander	"Ossipee."
1897	Lorenzo C. Farwell	Dorchester	Lieutenant commander	"Manning."
1897	Albert F. Patterson	New York	Lieutenant commander	"Unalga."
1899	James A. Alger	Reading	Lieutenant commander	"Gresham."
1906	William F. Towle	Boston	Lieutenant commander	"Comanche."
1906	Henry C. Roach	New Bedford	Lieutenant commander	"MacDougall."
1906	*Charles C. Plummer	Cambridge	Ensign	– –
1905	John F. Kinnaly	So. Boston	Ensign	Aide to Chief of Section, Base, Staten Island, N. Y.
1913	*Frank H. Nelson	Taunton	Ensign	"Mohave."
1917	William W. Storey	Jamaica Plain	Ensign	"Yumacraw."
1919	Paul E. Purdy	Everett	Ensign	"Acushnet."
1919	*Gordon A. Littlefield	Cambridge	Ensign	"Cassin."
1919	Arthur G. Morrill	Melrose	Ensign	– –
1919	Harry C. Howe	Stoneham	Ensign	"Fanning."
1919	Ronald G. Macintyre	Fall River	Ensign	"Ammen."
1919	Llewellyn Roberts	Arlington	Ensign	"Gresham."
1922	Angus S. MacIntyre	Provincetown	Ensign	Chief of Construction and Repair, Cape May.
1923	Julius F. Jacot	Beachmont	Ensign	"MacDougall."
1925	Richard L. Horne	Gloucester	Ensign	"Beale."
1917	Ernest V. Wyatt	Boston	– –	No. 292.
1917	Almer T. Hovland	Newton	– –	– –
1917	Russell W. Thresher	Southbridge	– –	No. 130.
1917	Alan R. Barton	Winthrop	– –	No. 152.
1919	G. F. Paul Stone	Pigeon Cove	– –	No. 289.
1920	Clarence A. Bartlett	Lowell	– –	– –
1921	Norman D. MacLellan	E. Weymouth	– –	– –
1921	Robert E. Taylor	Boston	– –	– –
1922	Emerson J. Cudios	Provincetown	– –	– –
1923	Raymond B. Newell	Revere	– –	No. 154.
1923	George F. Carleton	Lynn	– –	United States Coast Guard Academy.
1924	Arthur J. Walsh	Watertown	– –	No. 139.
1924	J. Malcolm Joseph	Dorchester	– –	– –
1924	John F. Laverty	Quincy	– –	United States Coast Guard Academy.

The United States Lighthouse Service.

1895	George E. Eaton	Woods Hole	Superintendent	Second Lighthouse District, Boston, Mass.
1904	John F. Williamson	Brockton	Captain	U. S. L. H. T. "Speedwell."
1905	Harry W. Maynard	Milwaukee	Captain	U. S. L. H. T. "Hyacinth."
1907	*William M. Gifford	Woods Hole	First officer	U. S. L. H. T. "Anemone."

The Engineer Corps, United States Army.

1921	Thomas J. Mew	Holyoke	Second assistant electrician.	"Dan C. Kingman."
1922	George F. Carreiro	Fall River	Second assistant electrician.	"W. L. Marshall."

The United States Steamboat Inspection Service.

1902	Herman T. Parker	Rockport	U. S. Steamboat inspector	Boston, Mass.
1905	Frederick S. Walk	Reading	U. S. Steamboat inspector	Toledo, Ohio.
1900	James F. Rawdon	Worcester	U. S. Steamboat inspector	Providence, R. I.
1911	*Charles F. Fornason	Marblehead	U. S. Steamboat inspector	Albany, N. Y.

Year.	Name.	Residence.	Position.	Vessel or Service.
1900	Gershom Bradford	Duxbury	Associate nautical engineer	Washington, D. C.
1913	*George W. Sullivan	New Bedford	Nautical assistant	Washington, D. C.
1918	Alex G. Anderson	Dorchester	Nautical expert	Washington, D. C.
1918	James R. Heaney	E. Lynn	Junior nautical engineer	Washington, D. C.
1919	Charles B. Scully	Rockland	Assistant nautical engineer.	Washington, D. C.
1919	Arthur O'Leary	So. Boston	Junior nautical engineer	Washington, D. C.
1919	Edmond F. Bemis	E. Lynn	Nautical assistant	Washington, D. C.
1919	Walter J. Cronin	Somerville	Junior assistant engineer	Washington, D. C.

Appropriations.

The appropriations for the school for the fiscal year 1925, from December 1, 1924, to November 30, 1925, are here accounted for as follows:

Expenses of Schoolship	Appropriation.	Expenditures.
Personal services	$45,755 00	$42,419 50
Travel, transportation and office expenses	2,300 00	2,428 31
Food	20,300 00	21,590 53
Furnishings and household supplies	830 00	1,572 26
Medical and general care	1,190 00	1,498 86
Heat, light, power, etc.	9,700 00	9,925 45
Repairs, ordinary	3,700 00	1,723 79
Miscellaneous	3,025 00	4,593 67
Appropriation by the Commonwealth[1]	$86,800 00	$85,752 37
Unexpended balance	–	1,047 63
	$86,800 00	$86,800 00

Expenses of Commission.	Appropriation.	Expenditures.
Personal services	$4,014 00	$4,014 00
Unexpended balance	–	–
	$4,014 00	$4,014 00
Office supplies and equipment	270 00	283 60
Traveling and other services and expenses	2,130 00	2,061 62
Appropriation by the Commonwealth[1]	$2,400 00	$2,345 22
Unexpended balance	–	54 78
	$2,400 00	$2,400 00

[1] The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

The estimates for the year 1926 are as follows:

Expenses of Schoolship	$89,345
Expenses of Commission	2,412
Personal Services	4,290

Respectfully submitted,

FRANCIS T. BOWLES, *Chairman.*
WILLIAM E. McKAY.
CLARENCE E. PERKINS.

Boston, December 1, 1925.

Public Document No. 42

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The Commonwealth of Massachusetts

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

Massachusetts Nautical School

FOR THE

Year ending November 30, 1926

Massachusetts Nautical School
Department of Education

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The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION.

PAYSON SMITH, *Commissioner of Education.*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL.

14 Beacon Street, Boston.

FRANCIS T. BOWLES, *Chairman.*
WILLIAM E. McKAY.
CLARENCE E. PERKINS.

WILLIAM H. DIMICK, *Secretary.*

REPORT OF THE COMMISSIONERS.

To the Commissioner of Education.

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1926, the thirty-fifth annual report.

The Massachusetts Nautical School has been maintained at its maximum capacity throughout the year. Instruction is given in the science and practice of navigation and marine engineering. The applications have numbered 193, and 80 have been appointed to fill existing vacancies as the result of competitive examinations held in Boston and Springfield. Two thousand four hundred and sixty-five sons of citizens of Massachusetts have entered the school since its organization in 1893, 1,231 have completed the course and received diplomas. For the last twelve years 90% or more of the graduates have taken employment at sea in the merchant marine of the United States.

On May 10, the Secretary of the Navy, Hon. Curtis D. Wilbur, made an official inspection of the Schoolship "Nantucket" at the Navy Yard, Boston. At the conclusion of the inspection he spoke briefly to the cadets.

Graduates of 1926.

During the year the school has graduated 41 sons of citizens of Massachusetts. Below will be found the names of these graduates, their home towns, and the vessel on which they are now serving. The demand of the steamship companies for the services of the graduates exceeds the supply.

Wendell G. Ames	Medford	S.S. F. Q. Barstow	Standard Oil Co.
John B. Ashton	Millbury	S.S. District of Columbia	Mexican Petroleum Co.
William A. Bradford, Jr.	Saugus	S.S. Floridian	American Hawaiian Line
Clyde R. Coburn	Hyde Park	S.S. San Blas	United Fruit Co.
Charles T. Conroy	Vineyard Haven	U. S. Coast Guard	Woods Hole, Mass.
Albert A. Corkhill	Methuen	S.S. Munaires	Munson Line
Edward R. Coyle	Taunton	S.S. Munisla	Munson Line
Walton C. Crouse	Lynn	– –	– –
Boyd Dunbar	Hyde Park	S.S. Metapan	United Fruit Co.
Josiah B. Dunlap	Plymouth	S.S. Sunewarka	Transmarine Corporation
James J. Fahey	South Boston	– –	– –
A. William Fallis	Atlantic	S.S. Sujerseyco	Transmarine Corporation
John T. Fordan	Boston	S.S. Mexican	American Hawaiian Line
John H. Francis	Avon	S.S. Suternico	Transmarine Corporation
Paul F. Hackett	Fall River	S.S. Swiftarrow	New England Oil Co.
William A. Halliden	Wollaston	S.S. Corapeak	Rogers & Webb Co.
John F. Harty	Charlestown	S.S. Esparta	United Fruit Co.
H. Joseph Hassett	Fitchburg	S.S. Iowan	American Hawaiian Line
Elwyn W. Hersey	No. Weymouth	S.S. Floridian	American Hawaiian Line
Paul G. Hirst	Amesbury	S.S. Plymouth	C. H. Sprague & Son
Frederick D. Hoitt	Somerville	S.S. Westpool	Rogers & Webb Co.
Herbert Hooper	Springfield	S.S. Westpool	Rogers & Webb Co.
George F. Hudson	Roslindale	S.S. Toloa	United Fruit Co.
Marshall W. Jones	Cambridge	S.S. Hoven	Shipping Board
Charles E. L. Kimball	Quincy	S.S. Carillo	United Fruit Co.
Ernest A. M. Lewerenz	Roxbury	S.S. W. H. Teagle	Standard Oil Co.
John S. Loring	Shrewsbury	U. S. LHT. Anemone	United States Lighthouse Service
Thurlow MacBrayne	Lowell	– –	– –
Harry W. Merchant	New Bedford	S.S. Floridian	American Hawaiian Line

Thomas E. O'Donovan	Dorchester	S.S. Levisa	United Fruit Co.
Elwin A. Pilkington	Mansfield	S.S. Hoven	Shipping Board
Joseph A. Pilote	Whitman	S.S. La Perla	United Fruit Co.
George J. Preston	Weymouth	S.S. Munmotor	Munson Line
Norman L. Queen	Needham Heights	Special employment	General Electric Co.
Lloyd K. Reed	Shrewsbury	S.S. Westpool	Rogers & Webb Co.
John A. Rooney	South Boston	— —	— —
Richard T. Rounds	Billerica	S.S. Livingston Roe	Standard Oil Co.
Earle B. Vaux	East Lynn	S.S. Missourian	American Hawaiian Line
Harold A. Weston	Salem	S.S. T. J. Williams	Standard Oil Co.
Frank E. Wirtanen	W. Barnstable	S.S. El Siglo	Southern Pacific Line
Harry L. Young	Attleboro	Special employment	General Electric Co.

Prizes.

The Wood-Whitman Memorial Prize, the legacy of the late Mr. Irving Wood of Boston, providing an annual prize of about $210, will be awarded for the first time in the autumn of 1927. It is to be given to the graduate of the year standing highest in seamanship and navigation.

The following is a complete list of the winners of the prizes offered by the Alumni Association:

	Seamanship Class	*Engineer Class*
1917	Luther C. Kingsbury	Herbert A. James
1918	William H. Fitzgerald	Laurence A. Wright
1919	Harry C. Lord	Walter E. Carey
	William B. Studley	Carl W. Holmes
1920	Francis X. Landrey	Arthur G. Berteaux
	William G. Watt	Max Gordon
1921	Arnold L. Franklin	John B. Smith
	John E. Hennessey	George A. Vera
1922	Kenneth C. Mayo	John D. Bosler
	Eliot Olsen	Louis F. Harlow
1923	Paul R. Jones	Edmund M. Hourigan
	Roy W. Chamberlain	Alfred Humphries
1924	Joseph H. Masse	Percy J. Lewis
	Sydney Blackledge	Albert R. Henreckson
1925	Paul L. Litchfield	Joseph W. MacDiarmid
	David Vincola	Acer N. Hilbourne
1926	Earle B. Vaux	Harry L. Young
	Richard T. Rounds	Norman L. Queen

The following are the names of the winners of the prizes offered by the Maritime Association of the Boston Chamber of Commerce:

	Seamanship Class	*Engineer Class*
1925	Frank S. Dowd	Laurence B. Swan
	Stanley F. Piekos	Paul W. Fellows
1926	Harold A. Weston	Harry L. Young
	William A. Bradford, Jr.	Norman L. Queen

The following honor cadets have been given a year's special employment and training in modern marine propelling machinery by the General Electric Company of Lynn:

1923	Alfred Humphries.
1924	Percy J. Lewis, Albert R. Henreckson and Earl B. Downing
1925	Laurence B. Swan and Acer N. Hilbourne
1926	Harry L. Young and Norman L. Queen

Practice Cruise.

During the summer the Schoolship, the U.S.S. "Nantucket," made a cruise of about 11,000 miles at sea, 1,500 miles under sail alone, visiting Provincetown, Ponta Delgada, Plymouth, Amsterdam, Hamburg, Oslo (Christiania), Bergen, Emden, London, Gibraltar, Madeira, Bermuda and Gloucester. The officers and cadets were especially received and given instructive visits to all merchant marine activities by the port authorities in Hamburg.

The Commissioners deeply regret that Cadet George H. Guy of Saugus, a member of the 1st class, was lost overboard on May 17 while the ship was in latitude 40° 18′ north and longitude 59° 28′ west. The "Nantucket" was three days out of Provincetown on the way to the Azores. At the time there was a moderate gale with an increasing sea. Every effort was made to save him including the launching of the lifeboat which was done at considerable risk. The sad loss of the cadet at sea, the first one in the thirty-five years' history of the school, was in no way attributable to any defect in the ship's equipment or any neglect on the part of officers or crew.

European Nautical Schools.

During the cruise, visits were made to the following European nautical schools: Thames Nautical Training College, Kent, England; Nautical Training College, Amsterdam, Holland; Oslo Nautical School, Oslo, Norway; Bergen Nautical School, Bergen, Norway; Hamburg Nautical School.

Thames Nautical Training College.

This private school trains and educates officers for the British mercantile marine. It was established in 1862 and is conducted on board the "H.M.S. Worcester," 4,725 tons, a stationary training ship anchored off Greenthwaite, Kent, port of London. Boys are received between the ages of 11 and 16 and the enrollment is about 130 cadets. The ordinary course is two years, but the length varies with the the ability of the cadet and the age. The tuition is about $600 per year. The two years served on board the "Worcester" count as one year's sea service and the cadet must serve three years at sea before he is qualified for examination for a second officer's license.

Amsterdam Nautical Training College.

This public school prepares for officers and captains in the mercantile marine and in the Government Navy of the Dutch East Indies. It was established in 1785 with 40 pupils. Applicants must have had three years in high school or its equivalent, and for these applicants the course is two years. Applicants who can show that they have had five-years course in high school with satisfactory marks are admitted to the one-year course. The cost to the student is $240 per year.

After having successfully passed two years in the school, the students spend the last year of the course at sea as mates' pupils with one of the steamship lines. After completing a year at sea with a good record, they are granted a certificate as third mate. Third mates are eligible to a course in the school for a second or first mate's license.

In 1785 the school was presented with a ship built on the grounds of the school. The Amsterdam Admiralty provided the rigging for a full rigged ship. The students on the grounds of the school each year rig and re-rig the vessel, and make any necessary repairs. Occasionally small vessels are placed at the disposal of the school, making it possible for the cadets to make short practice cruises.

Norwegian Nautical Schools.

Norway has fifteen public nautical schools located in different parts of the country and three nautical training ships which make a cruise of five months each year. About 300 cadets a year are trained on board the schoolships. One of the schoolships is a full rigged sailing vessel carrying 200 apprentices.

The Oslo Nautical School with about 130 students is provided with a modern four-story brick building occupying a commanding position overlooking the harbor.

In addition to many and roomy classrooms, there is a room fitted up for compass adjustment containing, besides magnetic compasses and models for adjusting them, a Sperry gyroscope and repeater and also an Anschutz gyro-compass and repeater. There is also a room containing models of ships and one fitted as an engineering laboratory with models of engines of various kinds.

The Bergen Nautical School is provided with a modern up-to-date building with observatory, and the school is surrounded by attractive grounds.

Belgium Nautical School.

The Belgium Nautical School is conducted by the Belgian Maritime Association on board the stationary training ship "Comte de Smet de Naeyer," and the cruising schoolship "L'Avenir," both being full rigged sailing ships. The latter is used as a cargo carrier and accommodates about 50 cadets. The school has an enrollment of about 100 cadets, 50 being under instruction on the stationary schoolship and 50 on the cruiser. The "L'Avenir" has recently made a cruise to Melbourne, Australia.

The school receives aid from the Belgium Government and the Province of Antwerp.

Hamburg Nautical School.

The school has a fine building with accommodations for over 300 students. The students at the school have served at least 50 months at sea, of which 36 months have been spent on sailing vessels. Upon completing the course students are examined for a chief mate's license. It is necessary to take another course in the school before one can be examined for a master's license.

The school has laboratories fully equipped with working models of the most modern type for instruction in physics and mechanics. At least 50 per cent of the school work is handled in laboratories where, with their excellent equipment, everything may be demonstrated with working models or graphically.

A thorough course is given in the operation of the gyro-compass, automatic steering device, and radio direction finder, in a laboratory provided for the purpose. There is a thorough course in ship construction with complete equipment for handling the subject.

The curriculum includes instruction in radio telegraph, as deck officers on board German freight ships must act as radio operators.

Commissioner Appointed.

On July 1, 1926, Capt. William E. McKay was reappointed a Commissioner of the school for a term of three years.

Death of Former Commissioner.

Lieut. Comdr. John C. Soley, U. S. N., who served as Chairman of the Massachusetts Nautical School Commissioners from August 7, 1891, to July 7, 1894, and who was active in the work of establishing the school, died in New Orleans in August. He had been in charge of the Navy Hydrographic Office in New Orleans for 22 years prior to his death.

Lectures.

1925.

December 2. Community singing, with solos by Mr. Hubert Perry and others.

December 9. Prof. Henry C. Kittredge of St. Paul's School, Concord, N. H.: "The Merchant Marine of Cape Cod."

December 16. George C. Loveland, Meteorologist, Boston: "Making the Weather Map."

December 23. Francis T. Bowles, Chairman, Massachusetts Nautical School Commissioners: "Good Citizenship."

1926.

January 6. Frank S. Davis, Manager of the Maritime Association, Boston Chamber of Commerce: "The Port of Boston." (Illustrated.)

January 13. Rev. Charles E. Park, D.D.: "Manhood."

January 27. Capt. George E. Eaton, Superintendent, Second Lighthouse District: "Lighthouses and Lightships." (Illustrated.)

Officers and Instructors.

The present officers and instructors of the school are as follows:

Armistead Rust, Captain, U. S. N., Retired, Superintendent and commanding officer.
Norman E. Merrill (graduate M. N. S.), Executive Officer.
Sydney L. MacLaughlin (graduate M. N. S.), Navigator.
George P. Lord, Jr. (graduate M. N. S.), Watch Officer.
Nicolai S. Sivertsen, Watch Officer.
Ervin L. Kelley, Lieutenant, U. S. N. R. (graduate M. N. S.), Chief Engineer.
John D. Bosler (graduate M. N. S.), Assistant Engineer.
Mortimer Graves, Instructor in Mathematics.
F. Dennette Adams, M.D., Medical Officer.
Charles Parker, Paymaster and Captain's Clerk.

The School Record.

During the year there have been 194 students on the rolls of the school. They came from 81 cities and towns of the Commonwealth, as follows:

Abington	2	Marshfield	1
Amesbury	1	Medford	2
Arlington	2	Melrose	5
Athol	1	Methuen	1
Atlantic	1	Millbury	1
Attleboro	3	Mittineague	2
Auburn	2	Montague	1
Avon	1	Nantucket	1
Barnstable	1	Needham	2
Bernardston	1	New Bedford	10
Beverly	2	Newton	2
Billerica	2	Peabody	1
Boston	32	Plymouth	2
Bridgewater	1	Provincetown	1
Brockton	3	Quincy	1
Brookline	2	Reading	1
Cambridge	2	Revere	1
Campello	1	Rockland	1
Chatham	1	Salem	4
Chelmsford	1	Saugus	2
Chicopee	1	Shrewsbury	2
Chilmark	1	Somerville	3
Concord	1	South Vernon	1
Dedham	1	Springfield	5
Easthampton	1	Swampscott	1
Easton	2	Taunton	2
Fairhaven	3	Vineyard	1
Fall River	6	Waban	1
Fitchburg	1	Walpole	2
Framingham	2	Waltham	2
Gardner	3	Ware	3
Gay Head	1	Wareham	1
Gloucester	1	Webster	1
Haverhill	1	Westboro	1
Holyoke	2	Weymouth	2
Lawrence	3	Whitman	2
Lincoln	1	Wilmington	2
Littleton	1	Wollaston	2
Lowell	1	Worcester	6
Lynn	9		
Malden	5		194
Mansfield	3		

Their previous education was as follows: High schools, 150; vocational schools, 15; industrial schools, 8; technical schools, 7; colleges, 7; academies, 5; grammar schools, 2. The average age of the cadets at entrance was 18 years 4 months. The number of cadets enrolled in the school at present is 110.

Occupation of Parents or Guardians.

Housewives	23	Insurance business	3
Salesmen	9	Overseers	3
Retired	7	Grinders	3
Managers	5	Woodworkers	3
Painters	5	Railroad employees	3
Clerks	5	Stationary engineers	3
Chauffeurs	5	Auto mechanics	2
Shoeworkers	5	Signal company employees	2
Machinists	5	Signalmen	2
Merchants	4	Coast Guard officers	2
Farmers	4	Bookkeepers	2
Foremen	4	Lawyers	2
Fish dealers	3	Physicians	2
Carpenters	3	Toolmakers	2

Bakers	2
Train dispatchers	2
Steamfitters	2
Mechanics	2
Chief engineers	2
Agent	1
Traffic engineer	1
United States Shipping Board employee	1
Receiver	1
Signal supervisor	1
Porter	1
Dentist	1
Contractor	1
Inspector	1
Conductor	1
Laundry proprietor	1
Iron worker	1
Shirt maker	1
Claim officer	1
District chief, fire dept.	1
Accountant	1
Electrician	1
Concrete manufacturer	1
Hairdresser	1
Last maker	1
Blacksmith	1
Mariner	1
Patrolman	1
Civil engineer	1
Nickel plater	1
Waitress	1
Chiropractor	1
Constable	1
Superintendent, cotton mill	1
Paper maker	1
Superintendent, gas and electric	1
Engineer	1
Lighthouse keeper	1
Investment banker	1
Prison officer	1
Marine engineer	1
Shipper	1
Teacher	1
Locomotive engineer	1
Internal Revenue agent	1
Mason	1
Nurse	1
Moulder	1
Secretary	1
Barber	1
Cabinetmaker	1
Janitor	1
Naval officer	1
Tender	1
Fisherman	1
Operator, railway company	1
Laborer	1
Superintendent, street bridge	1
Loom fixer	1
Lumber dealer	1
Coal dealer	1
Station agent	1
Prohibition administrator	1
Deliverer of bread	1
Custodian of securities	1
Foundry superintendent	1
General Electric worker	1
Wool sorter	1
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Cadet Officers of the Massachusetts Nautical School.

Summer Term, 1926.

H. Joseph Hassett, *Cadet Master.*

Navigation.

Richard T. Rounds . . . . . *Cadet First Officer.*

Engineering.

Frederick D. Hoitt . . . . . *Cadet Engineer.*
Norman L. Queen . . . . . *Cadet Assistant Engineer.*

Petty Officers.

(*Deck.*)

Frank E. Wirtanen
William A. Bradford, Jr.
A. William Fallis
John H. Francis
Josiah B. Dunlap
George H. Guy
Ernest A. M. Lewerenz
Howard F. Lane

(*Engineering.*)

Herbert Hooper, *Cadet Machinist.*
Edward R. Coyle, *Cadet Electrician.*

Winter Term, 1926–27.

C. Earl Vanderhoop, *Cadet Master.*

Navigation.

Albert B. Wells . . . . . *Cadet First Officer.*
Prescott L. Dixon . . . . . *Cadet Second Officer.*
Christian Simonsen, Jr. . . . . *Cadet Third Officer.*

Engineering.

W. Duncan Brimner . . . . . *Cadet Engineer.*
James A. McCulloch . . . . . *Cadet First Assistant Engineer.*
Stephen F. Norvish . . . . . *Cadet Second Assistant Engineer.*

Petty Officers.
(Deck.)

William E. Porter
Robert H. Davis
William F. Nelson
Howard F. Lane
Allen P. Rounds
Laurence T. Sidelinker
Aylmer R. Hatch
Ernest K. Edie, Jr.

James A. Whetton, *Cadet Carpenter's Mate.*
Richard G. Copeland, *Cadet Quartermaster.*
Ernest G. Leavitt, *Cadet Gunner's Mate.*

(Engineering.)

P. Edwin MacDiarmid, *Cadet Electrician.*

Cadets Admitted, Graduated and Honorably Discharged, from 1893 to 1926, inclusive.

	Admitted.	Graduated.			Honorably discharged.	Withdrawn, dismissed, dropped.	Number connected with the school.
		Seamanship Class.	Engineer Class.	Totals.			
1893	141	–	–	–	29	24	138
1894	63	–	–	–	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	133
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
Totals	2,465	638	593	1,231	665	459	–

Membership of the School.

Graduating Class, April, 1926.

Seamanship Division.

Vaux, Earle B.	Swampscott.
Conroy, Charles T.	Vineyard Haven.
Weston, Harold A.	Salem.
Hirst, Paul G.	Amesbury.
Ames, Wendell G.	Medford.

Engineering Division.

Young, Harry L.	Attleboro.
O'Donovan, Thomas E.	Dorchester.
Pilkington, Elwin A.	Mansfield.
Crouse, Walton C.	Lynn.
Rooney, John A.	South Boston.
Jones, Marshall W.	Cambridge.
Halliden, William A.	Wollaston.
Kimball, Charles E. L.	Quincy.
Dunbar, Boyd	Hyde Park.
Pilote, Joseph A.	Whitman.
Harty, John F.	Charlestown.

Graduating Class, October, 1926.

Seamanship Division.

Bradford, William A., Jr.	Saugus.
Rounds, Richard T.	Billerica.
Francis, John H.	Avon.
Hassett, H. Joseph	Fitchburg.
Wirtanen, Frank E.	West Barnstable.
Fallis, A. William	Atlantic.
Dunlap, Josiah B.	Plymouth.
Lewerenz, Ernest A. M.	Roxbury.
Fordan, John T.	Boston.
Merchant, Harry W.	New Bedford.
Loring, John S.	Shrewsbury.
Hersey, Elwyn W.	North Weymouth.
Fahey, James J.	South Boston.
Hudson, George F.	Roslindale.

Engineering Division.

Queen, Norman L.	Needham Heights.
Preston, George J.	Weymouth.
Hoitt, Frederick D.	West Somerville.
Hooper, Herbert	Springfield.
Reed, Lloyd K.	Shrewsbury.
Ashton, John B.	Millbury.
Coyle, Edward R.	Taunton.
Hackett, Paul F.	Fall River.
Corkhill, Albert A.	Methuen.
MacBrayne, Thurlow	Lowell.
Coburn, Clyde R.	Hyde Park.

Class to Graduate, April, 1927.

Seamanship Division.

Dixon, Prescott L.	Nantucket.
Vanderhoop, C. Earl	Gay Head.
Hatch, Aylmer R.	Ware.
Edie, Ernest K., Jr.	Wollaston.
Wells, Albert B.	Melrose.
Davis, Robert H.	Somerville.

Glover, Kenneth B.	Wilmington.
Simonsen, Christian, Jr.	Jamaica Plain.
Porter, William E.	Lynn.
Thistle, Charles	Salem.
Doolan, Kenneth E.	Athol.
Lawson, Arthur E.	Gloucester.
Sabine, John W.	Auburn.
Potter, Lloyd S.	New Bedford.

Engineering Division.

Brimner, W. Duncan, Jr.	Walpole.
MacDiarmid, P. Edwin	Mansfield.
Boys, Milburn G.	Holyoke.
Norvish, Stephen F.	Brockton.
McCulloch, James A.	Lee.
Allen, Gilbert L.	Attleboro.
Proctor, John	New Bedford.
Wildman, John	New Bedford.
Redmond, Charles O., Jr.	Lynn.
Steele, Frederick E.	Malden.
Belhumeur, Maurice J. A.	Boston.
McKinnon, William V.	South Boston.

Class to Graduate, October, 1927.

Seamanship Division.

Rounds, Allen P.	Billerica.
Nelson, William F.	Brockton.
Williams, Donald B.	Worcester.
Lane, Howard F.	Forest Hills.
Rancod, Max A.	Holyoke.
Bramer, Alfred W.	Brighton.
Curtis, Raymond W.	Taunton.
Wilder, H. Bancroft, Jr.	Newton Center.
Quandt, Theodore P.	Boston.
Ryder, R. Allen S.	Chatham.
Alderman, Ralph D.	Springfield.
Dodge, Russell A.	Worcester.
MacDonald, James D.	Lynn.
Bullen, H. Winthrop	Westboro.

Engineering Division.

Zeller, F. Raymond	Whitman.
Rowe, Charles V.	Cambridge.
Carlson, Clifford H.	West Bridgewater.
Jaeger, Edward F.	Mattapan.
McAuliffe, John B.	South Boston.
Seymour, Ford deV.	Fairhaven.
Breece, Laurence M.	Gardner.

Class to Graduate, April, 1928.

Copeland, Richard G.	Malden.
Leavitt, Ernest G.	Mansfield.
Sidelinker, Laurence T.	No. Wilmington.
Saviski, James E.	Brockton.
Craig, Frederick W.	Salem.
MacKenzie, William W.	West Roxbury.
Locklin, Chester B.	Abington.
Eaton, Frederick D.	Waltham.
Hughes, Thomas F.	Fall River.
Parker, Clifton V.	Chilmark.
Whetton, James A.	Needham Heights.
Kennelty, Joseph P.	New Bedford.

Breece, Milton	Gardner.
Johnson, Irving O.	Lynn.
Wright, Edward D.	Peabody.
Browning, Frederick D.	New Bedford.
Clough, Edgar W.	Campello.
Bunker, Elliott S.	South Lincoln.
Bedell, John T.	Salem.
Cook, Austin W.	West Medford.
Forrest, John E.	North Easton.
Sherman, Charles F.	New Bedford.
Schofield, Patrick J.	South Boston.
Davis, W. Nathaniel	Arlington.
Brosnahan, John, Jr.	Auburn.
Mabee, Charles E.	Abington.

Class to Graduate, October, 1928.

(Alphabetically arranged.)

Barnes, George H., Jr.	Marshfield.
Barrett, John T., Jr.	Boston.
Bingle, Joseph	Haverhill.
Billings, Henry O., Jr.	Walpole.
Brizard, Erle M.	Chicopee.
Bulwich, Vitty	Worcester.
Casey, Thomas J.	Springfield.
Dinneen, Maurice F.	Malden.
Doran, Clark D.	Fairhaven.
Downie, Malcolm W.	Mittineague.
Finucane, Morgan J.	Fall River.
Gifford, Herbert W.	Wareham.
Goldsmith, William F.	Jamaica Plain.
Greenleaf, Edward L.	Melrose.
Guidette, Mario L.	Springfield.
Haywood, William H.	West Roxbury.
Hodson, Albert C.	Reading.
Holmes, Laurence N.	Malden.
Kidd, Raymond C.	Melrose Highlands.
Krook, George C.	Mittineague.
Lanagan, Charles W.	Chestnut Hill.
MacKenzie, Roderick H.	Roxbury.
Munroe, Earle R.	Dorchester.
Musculus, William A.	Roslindale.
Normand, Gerard M.	New Bedford.
Ogden, Everett J.	Fall River.
Patch, John H.	Beverly.
Pierrepont, Raymond H., Jr.	Maplewood.
Redman, Muret C.	Waban.
Rudis, Jacob	Worcester.
Sawaska, Joseph J.	West Lynn.
Small, Harrison D.	Melrose.
Sturtevant, Ronald F.	Swampscott.
Swan, Earl M.	Beverly.
Tabrah, George R.	East Dedham.
Thayer, Howard A.	Chelmsford.
Torkington, Charles R.	Lawrence.

Register of Graduates.

Officers in the Merchant Marine.

[* Enrolled in the United States Naval Reserve during the World War.]

Year.	Name.	Residence.	Position.	Vessel or Service.
1895	Clarence E. Perkins	Winthrop	Commissioner	Massachusetts Nautical School.
1898	Joseph E. Sheedy	Reading	– –	United States Shipping Board.
1903	Nicholas J. Kane	Whitman	Superintendent	American-Hawaiian Line.
1897	*Frederick W. Jones	Winchester	– –	U. S. Shipping Board, Washington, D. C.
1909	Robert S. Sparrow	Eastham	Assistant general agent	A. H. Bull Line.
1909	*John J. Coholan	South Boston	Marine superintendent	Galveston, Texas.
1911	Norris T. Ela	Douglas	Marine superintendent	Atlantic, Gulf & Pacific Corp., Baltimore, Md.
1911	*William M. Gorham	Winthrop	Manager	Kauai Marine Railway Co., Port Allen, Kauai, Hawaii.
1915	*Charles H. Hurley, Jr.	Gardner	Manager	Jarka & Co., Stevedores, Boston.
1919	Richard R. McNulty	Gloucester	– –	Mallory Transport Lines.
1899	Edward G. Smith	Boston	Port captain	Freeport Sulphur Co.
1901	Theodore H. Bicknell	Melrose	Port captain	Union Sulphur Co.
1905	*Walter L. Smith	Ashburnham	Port captain	United States Shipping Board, Baltimore, Md.
1918	Raymond E. Saunders	Somerville	Office superintendent	Florida Railroad and Navigation Corp., Everglades, Florida.
1917	Herbert W. Susmann	Dorchester	Marine surveyor	Arthur Lee & Co.
1894	James E. Reardon	Roxbury	Captain	– –
1894	Henry G. Carpenter	Roxbury	Captain	"William M. Green."
1894	Albert L. Warner	Wollaston	Captain	– –
1895	Walter J. Healey	Worcester	Captain	"Walter Jennings."
1895	Geo. L. P. Covell	Roxbury	Captain	"Henry S. Groves."
1895	Horace W. Folger	Wilmington	Captain	Boston Pilot Boat Service.
1896	*Wm. N. P. Baker	Dorchester	Captain	"Oakwood."
1896	Alvin W. Haynes	Somerville	Captain	"Cristobal."
1896	Henry R. Bodge	Wollaston	Captain	– –
1896	Geo. R. Lauriat	Medford	Captain	"Gen. Brannan."
1897	H. W. G. Atkins	Reading	Captain	– –
1897	Mina Dailey	Rockport	Captain	"Harwood."
1898	*Louis E Congdon	Boston	Captain	"Swift Eagle."
1898	*Carl E. A. Anderson	Roslindale	Captain	"Missourian."
1898	Eldon G. Freeman	Whitman	Captain	Chief Pilot, San Francisco.
1898	*Charles H. Kilmer	Somerville	Captain	"District of Columbia."
1899	George F. Waite	Winthrop	Captain	U. S. Shipping Board.
1899	Walter S. Lynch	Chelsea	Captain	– –
1900	*James S. Howes	Woods Hole	Captain	"Arcturus."
1900	*Winthrop R. Cutts	Stoneham	Captain	– –
1900	*E. Newton Parker	Greenfield	Captain	– –
1900	William B. Knight	Bellingham	Captain	"Catherine D."
1900	Alfred M. Cummings	Worcester	Captain	"Lancaster."
1900	I. Clarence Bailey	Kingston	Captain	Boston Pilot Boat Service.
1901	Charles D. Harrington	Boston	Captain	"Joseph R. Parrott."
1901	Robert W. Tucker	Kendal Green	Captain	"Hannawa."
1902	*A. Russell Cushing	Allston	Captain	– –
1902	*Arthur T. Luther	Swansea	Captain	Pilot, Panama Canal.
1902	Osborn E. McKay	Sagamore	Captain	Pilot, Panama Canal.
1902	*Edwin J. Madden	Everett	Captain	"Cody."
1902	*Fred C. Seibert	Greenfield	Captain	"Seekonk."
1903	Benj. O'Connell	Peabody	Captain	"Wheeling Mold."
1903	*Harry M. Bostwick	Northbridge	Captain	"Suspearco."
1904	*Edward C. Roberts	No. Beverly	Captain	"Carillo."
1905	*Harold H. Gridley	Dorchester	Captain	"Darden."
1905	*James A. Crocker	Nahant	Captain	"F. R. Gordon."
1906	*William H. Lee	Malden	Captain	"Sagaporac."
1906	*George C. Bosson	Reading	Captain	"James S. Whitney."
1907	*Elmer B. Small	Reading	Captain	"Agwiworld."
1907	Frazier L. Sears	East Dennis	Captain	"Bramell Point."
1907	Frederick L. Gainard	Chelsea	Captain	Atlantic Coast Pilot.
1908	*Eugene P. Shevlin	East Boston	Captain	"Ala."
1908	Chester B. Mellen	Quincy	Captain	– –
1908	*Edward S. Ells, Jr.	Haverhill	Captain	– –
1909	Harold C. Cooper	Worcester	Captain	"Polarine."
1909	*Carroll E. Higgins	Somerville	Captain	"Mount Carroll."
1909	*Eric E. Winquist	Mattapan	Captain	Pilot, New York.
1910	*Chester E. Morris	Springfield	Captain	– –
1911	*Wesley F. Besse	Somerville	Captain	– –

Officers in the Merchant Marine—Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1911	*Harold S. Dexter	Mattapoisett	Captain	– –
1911	*Henry O. K. Hanson	Neponset	Captain	– –
1911	*Raymond C. Vose	Cambridge	Captain	"West Tacook."
1911	*Eugene W. Miller	East Saugus	Captain	"Western Glen."
1912	*Clarence L. Howard	Wellesley	Captain	– –
1912	Russell A. Eastman	Mattapoisett	Captain	"Rotarian."
1912	*Albert H. Acorn, Jr.	Malden	Captain	"Bonita VI."
1913	Philip J. Fanning	Needham	Captain	"Deer Lodge."
1913	*Everett T. Swinson	E. Gloucester	Captain	"Buenaventura."
1913	*Ralph W. Dearborn	Mansfield	Captain	"Alloway."
1913	*John A. Maddock	Newburyport	Captain	– –
1914	John L. Kirchner	Hinsdale	Captain	New York, New Haven & Hartford Railroad tugs.
1914	*Gerard R. Crosby	Orleans	Captain	"Georgian."
1914	David H. Swinson	Gloucester	Captain	"Lake Flattery."
1914	Nelson T. Nutter	Newburyport	Captain	"Chamblee."
1914	*Geoffrey C. O'Donoghue	Roxbury	Captain	U. S. Custom Service.
1915	Albert V. Jones	Fall River	Captain	"Pinthis."
1915	Charles N. Bamforth	Swampscott	Captain	"Pennsylvania."
1915	*Leland M. Marshall	Allston	Captain	"Advance."
1915	Harold F. Craven	Lawrence	Captain	"Gulfland."
1915	*Charles E. Griffith	Cambridge	Captain	– –
1916	*William E. Lord	Springfield	Captain	"Major Wheeler."
1916	John A. Rylander	Springfield	Captain	"Steel Trader."
1916	Clayton W. Collins	Waquoit	Captain	"Baytown."
1916	*John T. Crowell, Jr.	Gloucester	Captain	"Sachem."
1918	James E. Fraser	Boston	Captain	– –
1919	Harold T. Longmore	Stoneham	Captain	"Munleon."
1920	Francis X. Landrey	Roslindale	Captain	"Suboatco."
1921	Lawrence T. Sullivan	East Boston	Captain	"John Tracy."
1895	Harold W. Davis	Somerville	First officer	"Cottonwood."
1897	*Herbert P. Smith	Nantucket	First officer	– –
1899	George W. Stetson	Somerville	First officer	"Sujerseyco."
1900	Clayton G. Parsons	Salem	First officer	"West Cape."
1902	*Arthur P. Jensen	Provincetown	First officer	– –
1906	*Lewis B. Butler	Worcester	First officer	"Lake Fear."
1907	Philip B. Marcy	Brookline	First officer	"Ameland."
1908	*Ernest F. Robinson	Greenville	First officer	"Cleveland."
1912	*Herbert A. Burns	New Bedford	First officer	– –
1912	*Ralph E. Merithew	Haverhill	First officer	– –
1912	*Kenneth E. Cahoon	West Tisbury	First officer	"Aurora."
1912	*Joseph M. Daniel	Osterville	First officer	– –
1913	James A. MacCabe	Osterville	First officer	– –
1913	Wilfred H. Senior	Dorchester	First officer	"Firmore."
1913	*Philip H. Waldron	East Milton	First officer	"Coahoma County."
1913	*Frederick L. Howland	So. Dartmouth	First officer	"Western Ally."
1913	*Waldon A. McIntire	E. Gloucester	First officer	"Martha Washington."
1914	*Samuel J. Lee	Malden	First officer	"Kerhonkson."
1914	Edward F. Murphy	Fall River	First officer	"Lewis Luckenbach."
1915	*Ralph S. Moore	Newt. Highlands	First officer	"Steel Mariner."
1915	*Arthur A. Hovgaard	Brookline	First officer	"West Raritans."
1915	Ronald L. Ford	Lawrence	First officer	"Yukon."
1915	*William C. Davenport	New Bedford	First officer	"Minnekahda."
1915	Earle D. Hammond	E. Mattapoisett	First officer	– –
1915	Edward R. Rhodes	Lowell	First officer	"Edward L. Doheny."
1915	*Herman S. Mayo	Provincetown	First officer	"Fairmont."
1916	*Peter J. Jakmauh	South Boston	First officer	"West Inskip."
1916	*Richard H. Dunphe	Brockton	First officer	"Victorious."
1916	*Randall F. Elder	Brighton	First officer	"Eastern Crown."
1916	*J. Prescott Mahoney	W. Wareham	First officer	"Bristol."
1916	Harold R. Congdon	Somerville	First officer	"Anolco."
1916	Charles A. Martell	Somerville	First officer	"Montgomery City."
1916	*Edwin T. Fletcher	Springfield	First officer	"Wheaton."
1917	Alton E. Borden	Fall River	First officer	– –
1917	Stanley F. Roberts	Springfield	First officer	– –
1917	A. Henry Rowe	Roslindale	First officer	"Currier."
1917	Ivan Freeman	East Orleans	First officer	"Ossaban."
1917	Luther C. Kingsbury	Wellesley	First officer	"Riverside Bridge."
1918	Hartley Hoffses	Quincy	First officer	"Hickman."
1918	Alden L. Strout	Boston	First officer	"Excelsior."
1918	Max Distelman	Newburyport	First officer	"Lackawanna Bridge."
1918	William S. Reagh	Wakefield	First officer	"Steel Traveler."
1918	G. Minard Cunningham	Lawrence	First officer	– –
1918	Jacob Popkin	Malden	First officer	"Yuka."
1918	Leonard C. Walen	Gloucester	First officer	"Deuel."
1919	Charles F. Bossom	Arlington	First officer	"Macerata."
1919	John W. Donahoe	Dorchester	First officer	"Transportation."
1920	Erwin F. Colburn	Somerville	First officer	"San Jose."
1920	*J. Francis Devlin	Salem	First officer	"President Monroe."
1920	*David F. Atwood	W. Falmouth	First officer	"Kershaw."
1921	George J. Lavin	Melrose	First officer	– –
1921	George A. Perkins	No. Carver	First officer	"M. & J. Tracy."

Officers in the Merchant Marine—Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1922	Carroll P. Burgess	Plymouth	First officer	"Swift Eagle."
1922	Vincent F. J. Hancock	Fall River	First officer	"Frank A. Morey."
1894	Alfred J. O'Leary	Worcester	Second officer	"Adacia."
1902	*George Castle	Lynn	Second officer	"Lake Fanning."
1904	Leslie F. Holmes	Whitman	Second officer	– –
1904	*Andrew J. Iverson	Beverly	Second officer	"Newton."
1904	*Charles H. Stoddard	Brookline	Second officer	– –
1906	John Ruyter	Rochester	Second officer	"Lake Ellio."
1907	Herbert Garity	Boston	Second officer	"Dorothy."
1910	Franklin K. Tyler	Beachmont	Second officer	"Saramacca."
1912	Harold L. Winslow	Canton	Second officer	"America."
1913	*Oliver P. Shattuck	West Acton	Second officer	"Reliance."
1913	Frederick A. Stainforth	Winthrop	Second officer	"Paulsboro."
1913	John W. Crocker	Nahant	Second officer	"Western Spirit."
1914	*Joseph L. Turner	Amherst	Second officer	– –
1914	Ten Eyck H. Reed	S. Framingham	Second officer	"Panama."
1914	*William H. Fogarty	Dorchester	Second officer	"Afoundria."
1914	Laurence L. Horton	Eastham	Second officer	"Prince Frederick."
1915	George T. Horan	Allston	Second officer	"Steel Traveler."
1915	*Russell C. Damon	Hingham	Second officer	"Lake Ellsbury."
1915	*Curtis C. Fales	Westborough	Second officer	"Malabar."
1915	*Charles P. Jacobson	Everett	Second officer	"Oskawa."
1915	Sidney F. Nichols	Worcester	Second officer	– –
1915	Russell L. Saunders	Allston	Second officer	– –
1916	*Frank M. Perrin	Worcester	Second officer	– –
1916	Clifford E. Stanley	Salem	Second officer	– –
1916	Paul H. Browne	West Roxbury	Second officer	"Eagle."
1916	Fred E. Wilcox	Indian Orchard	Second officer	– –
1917	*Percie A. Crosby	Everett	Second officer	"Chester Valley."
1917	*Earl S. Francis	Athol	Second officer	– –
1917	*William M. Preston	Beverly	Second officer	– –
1917	Charles F. Huffman	W. Somerville	Second officer	"West Hambrie."
1917	*Frank M. Moore	Forest Hills	Second officer	Ferry Service, Boston.
1917	*Bradford S. Wilson	Brookline	Second officer	– –
1917	Donald MacWhinnie	New Bedford	Second officer	"Sinsinawa."
1917	David M. McLaren	Dedham	Second officer	"Finland."
1918	Raphael W. Hill	Provincetown	Second officer	"Agwismith."
1918	Geo. R. Stockbridge	Wellesley	Second officer	"Anacortes."
1918	Wilbur W. Woods	Provincetown	Second officer	"Elmsport."
1918	James R. Moore	Lexington	Second officer	"Lake Sunapee."
1918	James J. Crowley	No. Abington	Second officer	– –
1918	James H. Lowry	Canton	Second officer	"Lake Ellesmere."
1918	Gerald K. Sanborn	Lawrence	Second officer	– –
1919	Robert S. O'Brion	Malden	Second officer	– –
1919	Richard F. Nickerson	So. Duxbury	Second officer	"Henry Groves."
1919	John J. Mahoney	Revere	Second officer	"Swift Wind."
1919	William B. Studley	Fairhaven	Second officer	"Steel Exporter."
1919	Harry E. Hopkins	No. Eastham	Second officer	"William Green."
1919	Ernest B. Waters	Nahant	Second officer	"La Perla."
1919	William H. Moulton	Bedford	Second officer	"F. J. Luckenbach."
1919	Charles E. Gilman	Somerville	Second officer	"Everett."
1919	Francis J. Harrington	Revere	Second officer	"Swift Eagle."
1919	Alfred A. Needham	Manchester	Second officer	"Loyal Legion."
1920	William S. Tyrrell	Cambridge	Second officer	"Montanan."
1920	Ralph I. Colson	Everett	Second officer	"Dakotan."
1920	Francis E. Donnelly	Roslindale	Second officer	"Jonancy."
1920	*Oswald J. Griffin	Fall River	Second officer	"Imlay."
1921	Charles G. Foster	Dennis	Second officer	"Ipswich."
1921	John A. Robertson	Boston	Second officer	"Georgian."
1921	J. Blaisdell Wells	Medford	Second officer	"Montanan."
1921	Edward F. Sise	West Medford	Second officer	"Pastores."
1921	Alphonsus J. Godfrey	Roxbury	Second officer	– –
1922	William C. Mahoney	Somerville	Second officer	"Bayway."
1922	Arthur O. Brady	Rockland	Second officer	"Oregonian."
1922	Kenneth C. Mayo	Provincetown	Second officer	"Californian."
1922	Malcolm O. Sillars	Danvers	Second officer	– –
1923	Gerald P. Coleman	Melrose	Second officer	"West Honaker."
1923	Roy W. Chamberlain	Lynn	Second officer	"President Adams."
1923	John E. Handran	Rockport	Second officer	"Ardmore."
1923	Duncan S. Baker	Manchester	Second officer	"Panaman."
1923	Edson B. Cates	Winthrop	Second officer	"Kansan."
1923	George R. Hickey	Rockland	Second officer	"Lancaster."
1923	George J. Andrews	Winthrop	Second officer	"Edward L. Doheny."
1923	Maurice L. Whelan	Whitman	Second officer	"Nebraskan."
1924	Ralph E. Jernberg	Worcester	Second officer	"Menukai."
1925	Joseph A. Scully	Rockland	Second officer	"Mevania."
1925	Arthur J. Carnes	Malden	Second officer	"Hoven."
1905	*Laurence G. Kelley	Taunton	Third officer	– –
1912	Francis J. McGowan	Somerville	Third officer	"Lake Grampus."
1914	*Samuel A. Gates	Malden	Third officer	"Oregonian."
1916	*Albert Bianchi	Worcester	Third officer	– –
1916	*Byron H. Paine	New Bedford	Third officer	"Minnekahda."
1918	*Edgar G. Glines	Beverly	Third officer	"Roanoke."
1918	Ira D. Dean	So. Natick	Third officer	"La Perla."

Officers in the Merchant Marine—Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1918	Raymond P. Abbott	Newburyport	Third officer	"Sinsinawa."
1919	Sherman W. Reed	Lexington	Third officer	"Leviathan."
1919	Frederick T. DeLeskey	East Boston	Third officer	"Corsica."
1919	Jack A. Fraser	Lowell	Third officer	"Missourian."
1919	Roy D. Hall	Dennis	Third officer	"Swift Light."
1919	*Harold B. Wilkinson	Lynn	Third officer	"Lake Galando."
1919	George A. Henderson	Brighton	Third officer	– –
1919	Walter W. Jenness	Malden	Third officer	"City of Atlanta."
1920	Daniel J. Coughlin	Lowell	Third officer	– –
1920	*Fred M. Full, Jr.	Rockport	Third officer	– –
1920	*Noble M. Hartley	Winthrop	Third officer	"Lake Fagundas."
1920	Mortimer P. O'Sullivan	West Medford	Third officer	"Schoodic."
1920	*Laurence R. Jacques	Springfield	Third officer	"Mevania."
1920	*Fred C. B. Steinmetz	Springfield	Third officer	"Winona."
1920	Theodore Collins	Milton	Third officer	"Springfield."
1920	*Joseph G. Dean	Springfield	Third officer	"Astmahco."
1920	*Chas. A. Freeman, Jr.	Taunton	Third officer	"Lake Foch."
1920	*Richard B. Taylor	W. Somerville	Third officer	"Romulus."
1920	*Ralph E. Tilton	Fitchburg	Third officer	"Crawl Keys."
1920	John F. Hannan	Mattapan	Third officer	"Egremont."
1920	Charles R. Clarke	Lynn	Third officer	"Minnesotan."
1920	Alex. M. S. Paddock	Cambridge	Third officer	"Morristown."
1920	Raymond A. Bowen	Gloucester	Third officer	"Red Mountain."
1921	Roger J. O'Sullivan	West Medford	Third officer	"Sartatia."
1921	Philip W. Atkinson	Fitchburg	Third officer	– –
1922	Edward C. Beatson	Ludlow	Third officer	– –
1922	Edwin S. Baker	Manchester	Third officer	"Cold Harbor."
1922	Ernest D. Murray	Everett	Third officer	"President Madison."
1922	John F. Mulvey	Roslindale	Third officer	"West Calumb."
1922	Webster G. Farrell	Dorchester	Third officer	"Esparta."
1922	George Worth	Cambridge	Third officer	"Harwick Hall."
1922	Robert M. Pierce	Rockport	Third officer	"Ohioan."
1922	Scranton H. Redfield	Lynn	Third officer	"Deuel."
1923	Paul R. Jones	Gloucester	Third officer	"Dakotan."
1923	Edward P. McGourthy	Roxbury	Third officer	"San Jose."
1923	William T. Corfield	Roxbury	Third officer	"C. A. Snyder."
1923	John E. Wade	Amesbury	Third officer	"Oneida."
1923	Richard E. Pendleton	Bryantville	Third officer	"Santa Cruz."
1924	James W. O'Brien	Springfield	Third officer	"Edward L. Doheny."
1924	Edward B. Ellis	Walpole	Third officer	"Sangamon."
1924	Robert S. Gale	Watertown	Third officer	"San Mateo."
1924	John F. Doyle	Holyoke	Third officer	"Georgian."
1924	Sydney Blackledge	Pottersville	Third officer	– –
1924	J. William Malen	Gloucester	Third officer	"Floridian."
1924	Joseph H. Masse	Everett	Third officer	"Kentuckian."
1925	James F. Donovan	Lawrence	Third officer	"Swift Wind."
1925	Henry K. Bradford	Saugus	Third officer	"American."
1925	Harold M. Mann	Boston	Third officer	"Nile."
1925	Harold V. Nerney	Attleboro	Third officer	"Bibbco."
1925	Edward C. Pilote	Whitman	Third officer	"La Perla."
1925	John P. Binney	Milford	Third officer	"Mundelta."
1925	Malcolm E. Crossman	Taunton	Third officer	"Hillman."
1925	James E. Walsh	Watertown	Third officer	"Gen. Goethals."
1925	Winslow M. Rouse	Roxbury	Third officer	"Fairfield City."
1925	Paul L. Litchfield	Dracut	Third officer	"Federal."
1926	Wendell G. Ames	Medford	Third officer	"F. Q. Barstow."
1926	Harold A. Weston	Salem	Third officer	"T. J. Williams."
1926	Josiah B. Dunlap	Plymouth	Third officer	"Sunewarkco."
1926	John H. Francis	Avon	Third officer	"Suternico."
1926	Paul G. Hirst	Amesbury	Third officer	"Halsey."
1926	A. William Fallis.	Atlantic	Third officer	"Sujerseyco."
1926	Frank E. Wirtanen	W. Barnstable	Third officer	"Suholco."
1918	Harold S. Damon	Plymouth	Junior officer	"George Washington."
1924	William H. Jacobs	Gloucester	Junior officer	"Southern Cross."
1925	Douglas MacMaster	Cambridge	Fourth officer	"Kansan."
1925	Harvey J. Reynolds, Jr.	Duxbury	Fourth officer	"Floridian."
1915	David P. Delano	Orleans	Harbor master	Clyde and Mallory Lines.
1900	*Hollis M. Cornwall	Melrose	Marine superintendent	Merchants and Miners Transportation Co.
1907	Paul R. Smith	Concord	Superintending engineer	Roosevelt St'mship Co.
1905	Charles F. Tarr	Taunton	Port engineer	United States Shipping Board, Philadelphia.
1901	Sidney A. Maglathlin	W. Bridgewater	Supervising engineer	– –
1895	Michael D. Sullivan	Worcester	Chief engineer	"Rosecrans."
1896	*James H. B. Meehan	Lowell	Chief engineer	– –
1898	Charles E. Perry	Hyde Park	Chief engineer	"Bibbco."
1898	Frank P. Killion	Malden	Chief engineer	"Kilauea."
1898	William E. Ballsdon	Neponset	Chief engineer	"Herman Winter."
1898	Wilbur S. Lamont	Leominster	Chief engineer	"West Hargrave."
1898	*Everett S. Ransom	E. Mattapoisett	Chief engineer	– –
1898	Charles E. Rowe	Lynn	Chief engineer	– –
1898	*John C. Ganser	Jamaica Plain	Chief engineer	"Bird City."

Officers in the Merchant Marine—Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1900	*Charles E. Lowe	Roxbury	Chief engineer	"Eastern Trader."
1900	Elmer P. Butterworth	Foxboro	Chief engineer	"West Celina."
1900	William Glover	Wilmington	Chief engineer	"Northland."
1901	*Eugene I. K. Murphy	Worcester	Chief engineer	– –
1901	*Robert A. Patterson	Cambridge	Chief engineer	– –
1902	Daniel F. Butler	Waltham	Chief engineer	"Gloria."
1903	James S. McGarry	Shrewsbury	Chief engineer	"El Alba."
1903	*Edmund E. Powers	Cambridge	Chief engineer	"Texarkana."
1904	Charles W. Bumpus	Wareham	Chief engineer	"City of Gloucester."
1904	*Cecil L. McIntyre	Ashmont	Chief engineer	"Olen."
1905	*Fred G. Carlton	Maynard	Chief engineer	"H. D. Morse."
1906	*Augustus C. Caldwell	Dorchester	Chief engineer	– –
1906	Victor M. Foster	Revere	Chief engineer	– –
1906	Bradford N. A. Gladding	New Bedford	Chief engineer	– –
1906	*Arthur G. Burbank	Carver	Chief engineer	– –
1907	*George H. Stickney	Watertown	Chief engineer	– –
1907	*Samuel P. Osgood	Middleboro	Chief engineer	"Bessemer City."
1907	*Archie E. Bragg	New Bedford	Chief engineer	– –
1908	*Thomas B. Pellett	Worcester	Chief engineer	– –
1909	*Everett B. Ward	Lynn	Chief engineer	– –
1909	*William A. Sullivan	East Boston	Chief engineer	Mine sweeper.
1909	*Leo A. Keating	Natick	Chief engineer	"F. J. Luckenbach."
1909	Richard K. Henry	Pittsfield	Chief engineer	"Silverbrook."
1909	*Samuel J. Miller	Fall River	Chief engineer	"Lehigh."
1910	George W. Sibley	Worcester	Chief engineer	"Geo. W. Barnes."
1910	Leslie L. Badger	Roxbury	Chief engineer	– –
1910	R. Wilbur Anderson	Mattapan	Chief engineer	"Passaic Bridge."
1911	*Robert F. Phinney	Mattapan	Chief engineer	"West Pool."
1911	John P. Lundergan	Brockton	Chief engineer	"Edward Luckenbach."
1911	Harvey M. Thorndike	Cliftondale	Chief engineer	"El Capitan."
1912	William A. Hamilton	Cliftondale	Chief engineer	– –
1912	Richard K. O'Connell	No. Easton	Chief engineer	"Nelson."
1912	*John M. Marks	Gloucester	Chief engineer	"Burnwell."
1912	*Richard J. Cavanaugh	New Bedford	Chief engineer	"Agwipond."
1914	*Arthur C. Goodwin	Somerville	Chief engineer	"Caspar."
1914	Joseph L. Concannon	Melrose	Chief engineer	– –
1915	*Philip J. Durney	Gloucester	Chief engineer	"Gloucester."
1914	Joseph L. Concannon	Melrose	Chief engineer	– –
1915	*Philip J. Durney	Gloucester	Chief engineer	"Gloucester."
1917	*John D. Noonan	Mansfield	Chief engineer	"Yaklok."
1918	John R. Donlin	Medford	Chief engineer	– –
1919	Warren L. Bailey, Jr.	Worcester	Chief engineer	– –
1897	Augustus T. Holmes	Ipswich	First assistant engineer	"J. M. Guffy."
1900	Earle P. Marshall	No. Easton	First assistant engineer	"Lake Buckeye."
1901	*Ernest E. Sackett	Lynn	First assistant engineer	"Wampum."
1902	Augustus W. Hart	No. Truro	First assistant engineer	– –
1904	*Benj. L. Welch	Lynn	First assistant engineer	"Eastern Chief."
1904	Edward J. Chadbourne	Reading	First assistant engineer	– –
1904	William Stewart	Charlestown	First assistant engineer	– –
1907	*Joseph R. Wier	Saundersville	First assistant engineer	"Mexican."
1909	*William E. Caddigan	Dorchester	First assistant engineer	– –
1909	Fritz T. Kebler	Rochdale	First assistant engineer	"Henry F. Dimock."
1910	Harold C. Grover	Stoneham	First assistant engineer	"Nobles."
1912	Louis H. Racicot	W. Somerville	First assistant engineer	"Paul H. Harwood."
1913	Paul S. Rice	Cambridge	First assistant engineer	"Arlington."
1913	Russell A. McLay	Lawrence	First assistant engineer	"Currier."
1914	Leslie T. Severance	Cambridge	First assistant engineer	"Malden."
1914	Fred H. Brewster	Somerville	First assistant engineer	– –
1914	Benj. H. Allen, Jr.	Lawrence	First assistant engineer	"Cambrai."
1914	James A. Sweeney	East Boston	First assistant engineer	– –
1914	Charles P. Tucker	Boston	First assistant engineer	"Northern Wave."
1915	Stanislaus P. J. Ciolkosz	Taunton	First assistant engineer	"Deuel."
1915	*Roy C. Hartwell	Boston	First assistant engineer	"Arizonan."
1915	Arthur F. Higgins	Lawrence	First assistant engineer	"Castlewood."
1915	*Clarence E. Stevens, Jr.	W. Barnstable	First assistant engineer	– –
1915	*Bernhardt Gerecke	Boston	First assistant engineer	– –
1916	*Henry A. Guba	New Bedford	First assistant engineer	"Lake Benton."
1916	*John E. Pilkington	Mansfield	First assistant engineer	"Hoven."
1916	*Paul Gorman	Marlboro	First assistant engineer	"Chickasaw City."
1916	*Carl E. Berglund	Brockton	First assistant engineer	"Toledo."
1916	*Alex. J. Phillips	Easton	First assistant engineer	"Boundbrook."
1917	Ernest E. Raby	No. Easton	First assistant engineer	"Liberty Minquist."
1917	*Arthur D. Murphy	Beverly	First assistant engineer	– –
1918	Raymond H. Sample	Montello	First assistant engineer	"Swiftsure."
1919	Guy M. Hanna	Waltham	First assistant engineer	"Bogata."
1919	Loran H. Sanford	Beverly	First assistant engineer	"F. Q. Barstow."
1919	Roger N. Walcott	Concord	First assistant engineer	"Swiftarrow."
1919	Edward H. Morin	Stoneham	First assistant engineer	"Eastern King."
1919	John D. Cunningham	Quincy	First assistant engineer	"Mevania."
1921	Gerald D. Murphy	Campello	First assistant engineer	– –
1921	Frederick L. Murphy	Roxbury	First assistant engineer	"Agwisea."
1921	Albert I. Pilkington	Mansfield	First assistant engineer	"David McKelby."
1903	Harold A. Thompson	S. Framingham	Second assistant engineer	– –

Officers in the Merchant Marine—Continued.

Year.	Name.	Residence.	Position.	Vessel or Service.
1904	*William A. Danforth	Dorchester	Second assistant engineer	– –
1909	Arthur E. Whiton	Greenwood	Second assistant engineer	"Norwood."
1909	*Frederick H. H. Sylvia	Nantucket	Second assistant engineer	– –
1910	William Bowen	Boston	Second assistant engineer	"Bunker Hill."
1911	David J. Fulton	Wollaston	Second assistant engineer	"Pluto."
1911	George L. Lockhart	Wakefield	Second assistant engineer	"Orion."
1911	*Alfred Marques	Charlestown	Second assistant engineer	– –
1911	Samuel D. White	Hyannisport	Second assistant engineer	"Edward Pierce."
1912	George R. Davison	Springfield	Second assistant engineer	"Ancon."
1912	Walter L. Brewster	Somerville	Second assistant engineer	Black Diamond Corporation.
1913	*Charles J. Balboni	New Bedford	Second assistant engineer	"Bessemer."
1913	Edward J. Fogarty	East Boston	Second assistant engineer	"Ockenfels."
1914	*C. Harold Peterson	Norwood	Second assistant engineer	– –
1915	*John Holmes	Campello	Second assistant engineer	– –
1915	*Sherman J. Barrett	Lawrence	Second assistant engineer	– –
1916	*William W. Thomas	Concord	Second assistant engineer	– –
1916	*Joseph P. Condrey	Lowell	Second assistant engineer	– –
1916	*Harold W. Sanford	Springfield	Second assistant engineer	– –
1917	*Ernest C. Jensen	Provincetown	Second assistant engineer	"Lydia."
1917	Herbert A. James	Wellesley Farms	Second assistant engineer	"Lake Lida."
1917	*John T. Foye	Bridgewater	Second assistant engineer	– –
1917	Dwight W. Boyd	Randolph	Second assistant engineer	"Lake Ellendale."
1918	Joseph Freeman	Revere	Second assistant engineer	"Artegas."
1918	Elmer J. Kelley	Springfield	Second assistant engineer	"Lake Grogan."
1918	Stuart R. Colson	Whitman	Second assistant engineer	"O. T. Waring."
1918	Leroy B. Lowey	Woods Hole	Second assistant engineer	"Swiftwind."
1918	Francis J. Easton	Randolph	Second assistant engineer	"Branbrinno."
1918	Louis H. Johnson	Andover	Second assistant engineer	"Lake Sapor."
1919	Thomas F. Cotter	Lawrence	Second assistant engineer	– –
1919	Frank J. Couble	Brockton	Second assistant engineer	"Pocahontas."
1920	Arthur G. Berteaux	Boston	Second assistant engineer	– –
1920	John L. Flanagan	Lawrence	Second assistant engineer	"Imlay."
1920	John D. Young	Winthrop	Second assistant engineer	"President Van Buren."
1922	Lloyd M. Johnson	Brighton	Second assistant engineer	"San Mateo."
1922	Roy Y. Gordon	Somerville	Second assistant engineer	"West Pool."
1922	Richard W. Norcross	Needham	Second assistant engineer	"Esparta."
1923	Michael S. Fila	Bradford	Second assistant engineer	"Beaconoil."
1923	Elmer H. Bridge	Fall River	Second assistant engineer	"Swift Light."
1923	John A. Hey	Lawrence	Second assistant engineer	"Mary."
1924	Edmond P. Martin	Lynn	Second assistant engineer	"Commercial Scout."
1924	Ellery H. Capen	New Bedford	Second assistant engineer	– –
1904	Thomas F. Gosnay	Wakefield	Third assistant engineer	– –
1907	Charles S. McDonald	Malden	Third assistant engineer	– –
1911	Walter P. Lynn	Beverly	Third assistant engineer	"Lake Copley."
1911	Joseph C. Chisholm	No. Billerica	Third assistant engineer	– –
1911	*Levi E. MacLeod	Gloucester	Third assistant engineer	– –
1913	*Nils J. Peterson	Brockton	Third assistant engineer	– –
1915	*Wilfred C. Herron	Lawrence	Third assistant engineer	– –
1916	Carleton G. Reed	Lexington	Third assistant engineer	– –
1916	Richard A. Standley	Beverly	Third assistant engineer	"Lake Benton."
1917	Philip H. Little	Holbrook	Third assistant engineer	"Lake Forney."
1918	John R. Carden	Haverhill	Third assistant engineer	"Lake Fernwood."
1918	Ralph A. Evers	Somerville	Third assistant engineer	"Swift Eagle."
1918	Karl W. Newman	Brockton	Third assistant engineer	"De Soto."
1919	George C. Clements	Lynn	Third assistant engineer	"Vanguard."
1919	Carl W. Holmes	No. Easton	Third assistant engineer	"City of Rome."
1919	Charles B. Mitchell	Lawrence	Third assistant engineer	"Malden."
1919	Harding Smith	Nantucket	Third assistant engineer	"Floridian."
1919	James F. Beatty	Lowell	Third assistant engineer	"Durango."
1920	Lorenzo C. Brown	Everett	Third assistant engineer	"Resolute."
1920	James N. Oldroyd	Lynn	Third assistant engineer	"Lake Butler."
1920	Earle F. Clegg	Worcester	Third assistant engineer	"Puget Sound."
1920	Robert D. Mariner	Cambridge	Third assistant engineer	– –
1920	Ralph B. Warner	Marlboro	Third assistant engineer	– –
1920	*Joseph H. Donahue	Lawrence	Third assistant engineer	Gulf Refining Co.
1920	Chesley L. Kenyon	Huntington	Third assistant engineer	"Maddegat."
1922	Lawrence E. Dorgan	Brockton	Third assistant engineer	– –
1922	Frederick W. Mahoney	Somerville	Third assistant engineer	"Manchuria."
1922	George F. Carreiro	Fall River	Third assistant engineer	"Richard Peck."
1923	Lorenzo H. Smith	No. Easton	Third assistant engineer	"Wilton."
1923	Arthur F. Cole	West Lynn	Third assistant engineer	"Wabash."
1923	Thomas F. Fairbrother	No. Billerica	Third assistant engineer	"Seattle Spirit."
1923	Augustin P. Heffron	Marlboro	Third assistant engineer	"Osage."
1923	Edmond M. Hourigan	Dorchester	Third assistant engineer	"Penobscot."
1923	Alfred Humphries	Salem	Third assistant engineer	"Thomas P. Beal."
1924	Daniel C. Seed	Adams	Third assistant engineer	"Sixeola."
1924	James E. Slattery	Westboro	Third assistant engineer	"San Jose."
1924	Webster F. Harrington	So. Lincoln	Third assistant engineer	"C. J. Drake."
1924	Aubrey C. Allen	Marlboro	Third assistant engineer	"Imlay."
1924	Paul W. Anderson	No. Easton	Third assistant engineer	"Muneastern."
1924	James A. MacDonald	Tewksbury	Third assistant engineer	"Herbert G. Wylie."
1924	Ralph L. Langille	South Boston	Third assistant engineer	"Meteor."

Officers in the Merchant Marine—Concluded.

Year.	Name.	Residence.	Position.	Vessel or Service.
1924	Edwin S. Evans	Paxton	Third assistant engineer	"Virginian."
1925	John G. Moore	Roxbury	Third assistant engineer	– –
1925	Houghton L. Cummings	West Newton	Third assistant engineer	– –
1925	Folke C. Johnson	No. Easton	Third assistant engineer	– –
1925	John E. Reagan	Fall River	Third assistant engineer	"Middlesex."
1925	Paul W. Fellows	Reading	Third assistant engineer	"Louis K. Thurlow."
1925	Joseph W. MacDiarmid	Mansfield	Third assistant engineer	"Redman."
1925	Richard G. Aaron	Allston	Third assistant engineer	"Mevania."
1926	Albert A. Corkhill	Methuen	Third assistant engineer	"Munami."
1926	John J. Woodlock	Mansfield	Third assistant engineer	– –
1926	Elwin A. Pilkington	Mansfield	Third assistant engineer	"Chippewa."
1926	Edward R. Coyle	Taunton	Third assistant engineer	"Munisla."
1926	Thomas E. O'Donovan	Dorchester	Third assistant engineer	"Levisa."
1926	Harry L. Young	Attleboro	Third assistant engineer	– –
1926	Boyd Dunbar	Hyde Park	Third assistant engineer	"Metapan."
1926	William A. Halliden	Wollaston	Third assistant engineer	– –
1926	John F. Harty	Charlestown	Third assistant engineer	"Esparta."
1926	Frederick D. Hoitt	W. Somerville	Third assistant engineer	"West Pool."
1926	Marshall W. Jones	Cambridge	Third assistant engineer	– –
1926	Charles E. L. Kimball	Quincy	Third assistant engineer	"Carillo."
1923	Walter C. Bathelt	Holyoke	Fourth assistant engineer	"San Bruno."
1924	Norman S. Gilchrist	Cambridge	Fourth assistant engineer	"West Kebar."
1924	William J. Moran	Millis	Fourth assistant engineer	"West Kedron."

Special Employment with the General Electric Company.

Marine Department.

(Honor Engineer Graduates.)

1924	Earle B. Downing	East Lynn	Special employment	General Electric Co.
1924	Albert R. Henreckson	Sharon	Special employment	General Electric Co.
1925	Laurence B. Swan	No. Adams	Special employment	General Electric Co.
1926	Norman L. Queen	Needham H'g'ts	Special employment	General Electric Co.

Ship Construction.

1895	Charles H. Lincoln	Gloucester	Marine surveyor and inspector.	– –
1916	*Howard U. Chase	Nantucket	Superintendent	South Beach Boat Co., Nantucket.
1901	David W. Warren	Everett	Master mechanic	Curtis Bay Copper Iron Works.
1903	Edward J. Hogan	Charlestown	Assistant superintendent	– –
1909	Stanton Haversham	Bridgeport	Hull draftsman	Lake Torpedo Boat Co.
1911	Henry W. Ober	Everett	Electrician	Fore River Shipbuilding Co.
1912	Joseph B. Sylvaro	Dorchester	Electrician	Fore River Shipbuilding Co.
1902	Edw. J. Campbell	Dorchester	Engineman	Navy Yard, Boston.
1905	Reginald W. Burdekin	Northampton	Induction motors	General Electric Co.
1923	Alfred Humphries	Salem	Assistant foreman	General Electric Co.
1924	Percy J. Lewis	Lynn	Engine department	Ingersoll Rand Co.

Instructors.

1909	*Ervin L. Kelley	Dorchester	Chief engineer	U. S. S. "Nantucket."
1912	*Norman E. Merrill	Cambridge	Executive officer	U. S. S. "Nantucket."
1917	Sydney L. MacLaughlin	Lexington	Navigator	U. S. S. "Nantucket."
1920	George P. Lord, Jr.	Salem	Watch officer	U. S. S. "Nantucket."
1922	John D. Bosler	Holyoke	Assistant engineer	U. S. S. "Nantucket."

The United States Navy.

Year.	Name.	Residence.	Position.	Vessel or Service.
1906	*Howard G. Copeland	Malden	Commander, U. S. N. R.	U. S. Navy Yard, Boston, Mass.
1907	Thomas Baxter	So. Dennis	Lieutenant commander	U. S. S. "Savannah."
1898	Herbert E. Fish	Charlestown	Lieutenant	U. S. S. "Relief."
1898	Clarence E. Wood	Fall River	Lieutenant commander	(Ret.)
1898	James H. Willey	Brighton	Licutenant commander	San Francisco.
1902	John F. Murphy	Worcester	Lieutenant	U. S. S. "Florida."
1910	Russell H. Sullivan	Westfield	Lieutenant	San Diego.
1906	William R. Dolan	Worcester	Lieutenant	U. S. S-21.
1916	Darrough S. Gurney	Marion	Lieutenant	U. S. Navy Yard, Philadelphia.
1917	Philip G. Nichols	Peabody	Lieutenant (J. G.)	U. S. S. S-46.
1922	Eliot Olsen	Milton	Midshipman	U. S. Naval Academy.
1906	Carroll L. Morgan	Beverly	Chief radio electrician	Cayey, P. R.
1899	Leroy Neil	Lynn	Chief machinist	U. S. S. "Trenton."
1914	James A. Sweeney	East Boston	Machinist	U. S. S. "Camden."

The United States Marine Corps.

1903	Leander A. Clapp	Brockton	Major	Headquarters, Washington.
1906	Clarence E. Nutting	Cambridge	Major	Quantico, Va.

The United States Coast Guard Service.

1895	Philip W. Lauriat	Medford	Lieutenant commander	"Yumacraw."
1896	Webb C. Maglathlin	Bridgewater	Lieutenant commander	– –
1897	Lorenzo C. Farwell	Dorchester	Lieutenant commander	"Manning."
1897	Albert F. Patterson	Townsend	Lieutenant commander	"Unalga."
1899	James A. Alger	Reading	Lieutenant commander	"Gresham."
1906	William F. Towle	Boston	Lieutenant commender	"Comanche."
1906	Henry C. Roach	New Bedford	Lieutenant commander	"MacDougall."
1906	*Charles C. Plummer	Cambridge	Ensign	– –
1905	John F. Kinnaly	South Boston	Ensign	Aide to Chief of Section, Base, Staten Island, N. Y.
1913	*Frank H. Nelson	Taunton	Ensign	"Mohave."
1917	William W. Storey	Jamaica Plain	Ensign	"Yumacraw."
1919	Paul E. Purdy	Everett	Ensign	"Acushnet."
1919	*Gordon A. Littlefield	Cambridge	Ensign	"Cassin."
1919	Arthur G. Morrill	Melrose	Ensign	– –
1919	Harry C. Howe	Stoneham	Ensign	"Fanning."
1919	Ronald G. Macintyre	Fall River	Ensign	"Ammen."
1919	Llewellyn Roberts	Arlington	Ensign	"Gresham."
1922	Angus S. MacIntyre	Provincetown	Ensign	Chief of Construction and Repair, Cape May.
1923	Julius F. Jacot	Beachmont	Ensign	"MacDougall."
1925	Richard L. Horne	Gloucester	Ensign	"Seminole."
1917	Ernest V. Wyatt	Boston	– –	No. 292.
1917	Almer T. Hovland	Newton	– –	"McCall."
1917	Russell W. Thresher	Southbridge	– –	No. 130.
1917	Alan R. Barton	Winthrop	– –	No. 152.
1919	Charles W. Torrey	Rockland	– –	– –
1919	G. F. Paul Stone	Pigeon Cove	– –	No. 289.
1920	Clarence A. Bartlett	Lowell	– –	– –
1920	Charles H. Bartlett	Roslindale	– –	– –
1921	Norman D. MacLellan	E. Weymouth	– –	Boston, Mass.
1921	Robert E. Taylor.	Boston	– –	– –
1922	Emerson J. Cudios	Provincetown	– –	– –
1923	Raymond B. Newell	Revere	– –	No. 154.
1923	George F. Carleton	Lynn	– –	U. S. Coast Guard Academy.
1924	J. Malcolm Joseph	Dorchester	– –	– –
1924	John F. Laverty	Quincy	– –	U. S. Coast Guard Academy.
1924	Leo J. Libby	Marlboro	– –	No. 237.
1925	Stanley F. Piekos	Salem	– –	New London, Conn.
1926	Charles T. Conroy	Vineyard Haven	– –	Woods Hole, Mass.

The United States Lighthouse Service.

Year.	Name.	Residence.	Position.	Vessel or Service.
1895	George E. Eaton	Woods Hole	Superintendent	Second Lighthouse District, Boston, Mass.
1904	John F. Williamson	Brockton	Captain	U. S. L. H. T. "Speedwell."
1905	Harry W. Maynard	Winthrop	Captain	U. S. L. H. T. "Hyacinth."
1907	*William M. Gifford	Woods Hole	First officer	U. S. L. H. T. "Anemone."

The Engineer Corps, United States Army.

1921	Thomas J. Mew	Holyoke	Second assistant electrician	"Dan C. Kingman."

The United States Steamboat Inspection Service.

1902	Herman T. Parker	Rockport	U.S. Steamboat inspector	Boston, Mass.
1905	Frederick S. Walker	Reading	U.S. Steamboat inspector	Providence, R. I.
1900	James F. Rawdon	Worcester	U.S. Steamboat inspector	Providence, R. I.
1911	*Charles F. Fornason	Marblehead	U.S. Steamboat inspector	Albany, N. Y.

The Hydrographic Office, Navy Department.

1900	Gershom Bradford	Duxbury	Hydrographic office	Washington, D. C.
1913	*George W. Sullivan	New Bedford	Hydrographic office	Washington, D. C.
1918	Alex G. Anderson	Dorchester	Hydrographic office	Washington, D. C.
1918	James R. Heaney	East Lynn	Hydrographic office	Washington, D. C.
1918	James C. MacKenzie	Dorchester	Hydrographic office	Washington, D. C.
1919	Charles B. Scully	Rockland	Hydrographic office	Washington, D. C.
1919	Arthur O'Leary	SouthBoston	Hydrographic office	Washington, D. C.
1919	Edmond F. Bemis	East Lynn	Hydrographic office	Washington, D. C.
1919	Walter J. Cronin	Somerville	Hydrographic office	Washington, D. C.
1920	William G. Watt	Auburndale	Hydrographic office	Washington, D. C.

Appropriations.

The appropriations for the school for the fiscal year 1926, from December 1, 1925, to November 30, 1926, are here accounted for as follows:

Expenses of Schoolship.	Appropriation.	Expenditures.
Personal services	$45,300 00	$42,745 91
Travel, transportation and office expenses	2,650 00	2,156 74
Food	21,200 00	22,246 31
Furnishings and household supplies	850 00	1,139 42
Medical and general care	1,200 00	2,303 51
Heat, light, power, etc.	9,700 00	8,565 20
Repairs, ordinary	3,400 00	2,878 05
Miscellaneous	3,500 00	5,297 67
Appropriation by the Commonwealth[1]	$87,800 00	$87,332 81
Unexpended balance	–	467 19
	$87,800 00	$87,800 00

Expenses of Commission.	Appropriation.	Expenditures.
Personal services	$4,000 00	$4,000 00
Unexpended balance	–	–
	$4,000 00	$4,000 00
Office supplies and equipment	330 00	281 22
Traveling and other services and expenses	2,070 00	2,118 78
Appropriation by the Commonwealth[1]	$2,400 00	$2,400 00
Unexpended balance	–	–
	$2,400 00	$2,400 00

[1] The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

The estimates for the year 1927 are as follows:

Expenses of Schoolship	$89,139
Expenses of Commission	2,439
Personal Services	4,420

Respectfully submitted,

FRANCIS T. BOWLES, *Chairman.*
WILLIAM E. McKAY.
CLARENCE E. PERKINS.

Boston, December 1, 1926.

Public Document No. 42

The Commonwealth of Massachusetts

ASS.
OCS.
OLL.

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

Massachusetts Nautical School

FOR THE

YEAR ENDING NOVEMBER 30, 1927

MASSACHUSETTS NAUTICAL SCHOOL
DEPARTMENT OF EDUCATION

LIBRARY OF THE
Massachusetts Agricultural College,
AMHERST, MASS.

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE

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The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION.

PAYSON SMITH, *Commissioner of Education.*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL.

14 Beacon Street, Boston.

————————, *Chairman.*
WILLIAM E. McKAY.
CLARENCE E. PERKINS.
WILLIAM H. DIMICK, *Secretary.*

REPORT OF THE COMMISSIONERS.

To the Commissioner of Education.

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1927, the thirty-sixth annual report.

School Calendar.

Spring entrance examinations held	March 24, 25 and 26, 1927
Winter term ended	April 12, 1927
Spring graduation	April 12, 1927
Summer term commenced	April 20, 1927
Autumn entrance examinations held	September 28, 29 and 30, 1927
Summer term ended	October 4, 1927
Autumn graduation	October 4, 1927
Winter term commenced	October 31, 1927

Origin of the School.

The inception of the school was in 1872, when the late Rear Admiral S. B. Luce, U. S. N., wrote and spoke concerning the enlisted men in the navy and those who served in the merchant marine, advocating that something should be done to improve their condition, and as a result the Naval Training Station at Newport was established, and Congress passed an act on June 20, 1874, entitled "An Act for the Establishment of Marine Schools and for Other Purposes."

The Massachusetts Nautical School was organized under an act of the Legislature passed June 11, 1891, and went into active operation on board the U. S. S. "Enterprise," loaned by the United States Navy, on April 13, 1893. The school was conducted on board the "Enterprise" until 1909; since that date it has been conducted on board the U. S. S. "Nantucket." The "Nantucket" is an iron steamship of 1,261 tons displacement, single screw, barkentine rigged, length 244 feet, beam 32 feet, and draft 15 feet. The Navy Department estimates the replacement value of the ship as $450,000. The ship is moored in Boston during the winter term and during the summer makes a five months' cruise in foreign waters. The "Nantucket" is in command of a captain in the regular navy on the retired list, who is the superintendent of the school.

The course of study extends over two years and includes seamanship, navigation, marine engineering, electricity, ship construction and law of the sea. Applicants for admission must be between seventeen and twenty years of age. Parents or guardians are required to be residents of Massachusetts and citizens of the United States. The entrance examinations, held in the spring and autumn, are competitive, and the applicants with the highest standing are selected to fill the existing vacancies.

Increased Applications.

The school has had one of the most successful years in its history. The number of applicants for admission has exceeded that of any year since the World War, there being 260 applicants for the 75 vacancies in the school.

During the year 1927, the cadets in the school represented homes in 79 cities and towns of the Commonwealth, showing the widespread interest in the school throughout the Commonwealth. Since its establishment 36 years ago, the school has been maintained at its capacity. During the past ten years, there has been a waiting list.

These conditions are in line with the maritime traditions of the Commonwealth of Massachusetts, which has always maintained a prominent place in the maritime history of our nation. The story of the American merchant marine is largely a story of Massachusetts shipping, — the packet ships of Salem, Medford, Newburyport and Boston, the clipper ships of Boston, the whaling ships of New Bedford and Nantucket, and the fishermen of Boston, Gloucester and Provincetown. Massachusetts has been the greatest nursery for American seamen in the country. It has furnished a large percentage of the men serving on board the ships of our navy and our merchant marine. The young men of the State have always responded to the call of the sea in large numbers, both in time of peace and in time of war.

Repairs.

In the spring extensive repairs were made to the "Nantucket" by the Navy Department, at a cost of $35,000, substantially improving the condition of the equipment.

"Nantucket" at Navy Yard.

On June 1, 1927, while the "Nantucket" was on the summer cruise, fire destroyed the Floating Hospital ship and damaged the municipal pier at the North End Park, and it was not possible therefore to berth the ship at the usual location on her return from the summer cruise. Through the courtesy of Rear Admiral Philip Andrews, U. S. N., Commandant of the First Naval District, berthing space and classrooms were provided for the school at the Navy Yard, Charlestown, Mass.

Information Furnished Other States.

Requests have been received from New Jersey, Virginia and California for information regarding the establishment and operation of the Massachusetts Nautical School. Information has also been furnished Belgium, which desires to improve its school for the training of young men for the merchant marine.

Canada and New Zealand are considering the establishment of merchant marine training ships.

Graduates of 1927.

There is a good demand for the graduates of the school. The possibilities of rapid promotion from third officer to captain were evidenced recently when a graduate in the class of 1923 was appointed captain of a steamer of 5,000 tons, owned and operated by a well-known New York corporation. This graduate is 24 years of age, and is therefore one of the youngest captains in American shipping. It will be seen by the register of graduates, given on the last pages of this report, that the school is fulfilling the purpose for which it was established thirty-six years ago. A large percent of the graduates follow the vocation for which they were educated.

Below will be found the names of the forty-four graduates of 1927, their home towns, and the vessels on which they are now serving:

Ralph D. Alderman	Springfield	S. S. Minnesotan	American-Hawaiian Line
Gilbert L. Allen	Attleboro	S. S. S. B. Hunt	Standard Oil Co.
Maurice J. A. Belhumeur	Boston	S. S. H. M. Flagler	Standard Oil Co.
Milburn G. Boys	Holyoke	S. S. President Harding	United States Lines
Alfred W. Bramer	Brighton	S. S. Ontario	Merchants and Miners Transportation Co.
W. Duncan Brimner	E. Walpole	Special employment	General Electric Co.
H. Winthrop Bullen	Westboro	–	–
Clifford H. Carlson	W. Bridgewater	S. S. Minnesotan	American-Hawaiian Line
Raymond W. Curtis	Taunton	S. S. Nebraskan	American-Hawaiian Line
Robert H. Davis	Somerville	S. S. Argosy	Moore & McCormack
Prescott L. Dixon	Beverly	S. S. Iowan	American-Hawaiian Line
Kenneth E. Doolan	Athol	S. S. Walter Jennings	Standard Oil Co.

Ernest K. Edie, Jr.	Wollaston	S. S. Esparta	United Fruit Co.
Kenneth B. Glover	Wilmington	S. S. Californian	American-Hawaiian Line
Aylmer R. Hatch	Ware	S. S. Southern Cross	Munson Line
Edward F. Jaeger	Mattapan	S. S. Minnesotan	American-Hawaiian Line
Howard F. Lane	Forest Hills	S. S. Henry D. Whiton	Union Sulphur Co.
Arthur E. Lawson	Gloucester	S. S. Lillian Luckenbach	Luckenbach Line
P. Edwin MacDiarmid	Mansfield	S. S. Hawaiian	American-Hawaiian Line
James D. McDonald	Lynn	S. S. Ohioan	American-Hawaiian Line
John B. McAuliffe	South Boston	– –	– –
James A. McCulloch	Lee	S. S. Thomas H. Wheeler	Standard Oil Co.
William V. McKinnon	South Boston	S. S. Michael J. Perkins	City of Boston
William F. Nelson	Brockton	S. S. Virginian	American-Hawaiian Line
Stephen F. Norvish	Brockton	S. S. Swiftarrow	New England Oil Co.
William E. Porter	Lynn	Yacht Amida	– –
Donald A. Preble	Wollaston	S. S. Pan American	Munson Line
John Proctor	New Bedford	S. S. Zacapa	United Fruit Co.
Theodore P. Quandt	Somerville	– –	– –
Max A. Rancod	Holyoke	S. S. Steel Inventor	Isthmian Line
Charles O. Redmond, Jr.	Lynn	S. S. Standard	Standard Oil Co.
Allen P. Rounds	Billerica	S. S. Penobscot	C. H. Sprague and Son
Charles V. Rowe	Cambridge	Special employment	General Electric Co.
R. Allen S. Ryder	Chatham	– –	New England Oil Co.
John W. Sabine	Auburn	S. S. Sunewco	Transmarine Line
Christian Simonsen, Jr.	Jamaica Plain	S. S. La Perla	United Fruit Co.
Frederick E. Steele	Malden	S. S. Carillo	United Fruit Co.
Charles Thistle	Salem	S. S. Suscolanco	Transmarine Line
C. Earl Vanderhoop	Gay Head	– –	U. S. Coast Guard
Albert B. Wells	Melrose	S. S. Oregonian	American-Hawaiian Line
H. Bancroft Wilder, Jr.	Newton Centre	S. S. Californian	American-Hawaiian Line
John Wildman	New Bedford	S. S. Leviathan	United States Lines
Donald B. Williams	Worcester	Yacht Seaborn	New York
F. Raymond Zeller	Whitman	S. S. Jeanette Skinner	Yankee Line

The Practice Cruise.

The schoolship left Boston on the annual practice cruise on May 21. The itinerary included the following ports:

Provincetown	Nice, France	Oran, Algeria
Ponta Delgada	Genoa, Italy	Gibraltar
Gibraltar	Porto Ferrajo, Elba	Las Palmas, Canary Islands
Valencia, Spain	Ajaccio, Corsica	Gloucester
Palma, Majorca	Bona, Algeria	

The ship arrived in Boston on September 24. The total mileage was 9,625, one-third of which was made under sail alone.

Graduation Exercises.

The 65th graduation exercises were held on April 12, 1927, in Christ Church (Old North Church), Salem St., Boston, and were notably inspiring.

In the absence of the Chairman, Mr. Francis T. Bowles, Commissioner William E. McKay presided. Bishop William Lawrence offered prayer and presented the Bibles to the graduates. Mr. Harris Livermore, president of the Coastwise Transporation Company, presented the Maritime Association prizes to Christian Simonsen, Jr., and W. Duncan Brimner. The Alumni Association prizes were presented to Prescott L. Dixon and W. Duncan Brimner by Commissioner Clarence E. Perkins. The diplomas were presented by Capt. Armistead Rust, U. S. N., superintendent of the school.

The 66th graduation exercises were held at 11 A.M., on Tuesday, October 4, 1927, on board the Schoolship "Nantucket" at the Navy Yard, Charlestown. Mr. Clarence E. Perkins, commissioner of the Nautical School, presided. Rev. Samuel A. Eliot of Boston offered prayer and presented the Bibles. Addresses were made by Rear Admiral Philip Andrews, U. S. N., and Dr. J. M. Gwinn of San Francisco, president of the Department of Superintendence, National Education Association.

The Chamber of Commerce prizes were presented to graduates Allen P. Rounds and Charles V. Rowe, by Joseph W. Powell, president of the Maritime Association. The Alumni Association prizes were presented to graduates Allen P. Rounds and Charles V. Rowe, by Mr. Frank L. Downey, president of the Alumni Association.

The Wood Memorial Prize amounting to $160.67 was presented to graduate Allen P. Rounds by Professor Zelotes Wood Coombs of the Worcester Polytechnic Institute, a cousin of the donor. The diplomas were presented to the graduates by Dr. Payson Smith, commissioner of the Department of Education.

Death of Francis T. Bowles.

The Commissioners suffered the loss of their chairman on August 3. As chairman of the board for eleven years, Admiral Bowles rendered distinguished service to the Commonwealth. On August 17, the Commissioners adopted the following resolution:

> "*Resolved:* In the death of Francis T. Bowles on August 3, 1927, the Commonwealth has lost one of its leading public spirited citizens, and the Commissioners of the Massachusetts Nautical School a faithful, practical, and painstaking co-worker. Admiral Bowles was appointed a Commissioner of the school by Governor Samuel W. McCall, on July 5, 1916, and on July 7, 1916, he was elected Chairman of the Board, a position which he held until his death. During the eleven years he served the Commonwealth he gave abundantly of his time and thought to promote the welfare of the school. Always earnest and attentive to details, discerning and just, yet ever sympathetic with the problems of young men, his administration was entirely successful and notably popular. The Commonwealth was most fortunate in being able to draft the services of one who was so eminently qualified by education and experience to direct the training of nautical cadets."

The School Record.

During the year there have been 185 students on the rolls of the school. They came from 79 cities and towns of the Commonwealth, as follows:

Abington	2	Lexington	2
Arlington	1	Lincoln	1
Athol	1	Lowell	2
Attleboro	1	Lunenburg	1
Auburn	2	Lynn	7
Beverly	3	Malden	7
Billerica	1	Mansfield	2
Boston	23	Marblehead	1
Bridgewater	1	Marlboro	1
Brockton	3	Marshfield	1
Brookline	1	Medford	1
Cambridge	3	Medway	1
Campello	1	Melrose	4
Chatham	1	Millbury	1
Chelmsford	1	Milton	1
Chicopee	2	Mittineague	2
Chilmark	1	Needham	2
Concord	1	New Bedford	7
Dalton	1	Newton	6
Danvers	1	North Easton	1
Dedham	2	Peabody	1
Essex	1	Pepperell	1
Everett	1	Quincy	2
Fairhaven	2	Reading	1
Fall River	6	Salem	2
Gardner	2	Scituate	1
Gay Head	1	Shrewsbury	2
Gloucester	1	Somerville	4
Hamilton	1	Springfield	5
Haverhill	2	Swampscott	1
Holyoke	6	Taunton	2
Lawrence	4	Three Rivers	1
Lee	1	Uxbridge	1
Leominster	1	Waban	1

Walpole	3	Whitman	1
Waltham	3	Wilmington	2
Ware	1	Wollaston	4
Wareham	1	Worcester	9
Westboro	1		
West Springfield	1		185
Westwood	1		

Their previous education was as follows: High schools, 164; academies, 8; technical schools, 4; vocational schools, 3; industrial schools, 3; grammar schools, 2; college, 1. The average age of the cadets at entrance was 18 years 5 months. The number of cadets enrolled in the school at present is 118.

Occupation of Parents or Guardians.

Auditors	2	Letter carrier	1
Automobile mechanic	1	Lawyers	3
Bakers	3	Locomotive engineers	3
Blacksmith	1	Merchants	2
Bookkeeper	1	Manufacturers	2
Builder and contractor	1	Mechanical engineers	2
Brakeman, railroad	1	Master mariner	1
Bricklayer	1	Marine engineer	1
Carpenters	3	Milk dealer	1
Chauffeurs	5	Mason	1
Clerks	2	Master mechanic	1
Chief engineers	2	Moulder	1
Coast Guard officers	2	Master plumber	1
Contracting superintendents	2	Machinists	7
Chiropractor	1	Nurses	2
Compositor	1	Naval officer	1
Coal dealer	1	Office manager	1
Custodian of securities	1	Overseers	2
Cabinet maker	1	Principal, business college	1
Carder	1	Paper maker	1
Clothier	1	Pattern maker	1
Claim agent	1	Photographer	1
City editor	1	Piano maker	1
Credit manager	1	Produce merchant	1
Deliverer of bread	1	Physicians	2
Engraver	1	Painters	2
Engineer	1	Policemen	3
Electricians	2	Railroad workers	3
Foremen	2	Reformatory employee	1
Farmers	2	Rope maker	1
Foundry superintendents	2	Real estate business	2
Fish dealer	1	Retired	8
Garage proprietor	1	Steamfitters	2
Gardener	1	Salesmen	5
Harnessmaker	1	Stationary engineers	4
Hotel properietor	1	Shoeworkers	4
Housewives	20	Superintendents	3
Insurance business	2	Signalman	1
Investment banker	1	Shipper	1
Internal revenue agent	1	Saleswoman	1
Janitor	1	Storekeeper	1
Line assigner	1	Station agent	1
Last maker	1	Secretary	1
Lighthouse keeper	1	Sexton	1
Lumber dealer	1	Silk twister	1
Loom fixer	1	Supervisor	1
Laundress	1	Teachers	2

Toolmakers	2	Woolsorter	1
Treasurer	1	Wire drawer	1
Tender	1	Woodworkers	2
Train dispatcher	1		
Telephone wire chief	1		185
United States marshal	1		

Lectures.

1926.

November 23. Community singing, with solos by Mr. Hubert Perry, and others.
December 8. Rev. Charles E. Park, D.D.: "The Personal Equation."
December 16. Lieut. Gershom Bradford, U. S. N. R.: "Winds, Tides and Ocean Currents."
December 22. Mr. Robert B. Lea: "The Gyroscope Compass and Stabilizer" (Illustrated).

1927.

January 5. Chief Boatswain Timothy Sullivan, U. S. N.: "Seamanship as Applied to Old Time Sailing Ships."
January 12. Prof. Harlan T. Stetson, Harvard University: "Astronomy."
January 19. Capt. Thomas G. Frothingham: "The Genesis of the United States Navy." (Illustrated).
February 9. Mr. Stacy B. Southworth: "Abraham Lincoln."
February 16. Capt. B. W. Joy: "Old Time Sailing Ships."

Officers and Instructors.

The present officers and instructors of the school are as follows:

Armistead Rust, Captain, U. S. N., Retired, Superintendent and Commanding Officer.
Norman E. Merrill (graduate M. N. S.), Executive Officer.
William W. Storey (graduate M. N. S.), Navigator
Alton E. Borden (graduate M. N. S.), Watch Officer.
Nicolai S. Sivertsen, Watch Officer.
Ervin L. Kelley, Lieutenant ,U. S. N. R. (graduate M. N. S.), Chief Engineer.
John D. Bosler (graduate M. N. S.), Assistant Engineer.
Arthur L. Wheeler, Instructor in Mathematics.
F. Dennette Adams, M.D., Medical Officer.
Charles Parker, Paymaster and Captain's Clerk.

Cadet Officers of the Massachusetts Nautical School.

Summer Term, 1927.

Allen P. Rounds, *Cadet Master.*

Navigation.

William F. Nelson . . . . . *Cadet First Officer.*
Donald B. Williams . . . . . *Cadet Second Officer.*
Howard F. Lane . . . . . *Cadet Third Officer.*

Engineering.

Edward F. Jaeger . . . . . *Cadet Engineer.*
John B. McAuliffe . . . . . *Cadet First Assistant Engineer.*
Charles V. Rowe . . . . . *Cadet Second Assistant Engineer.*

Petty Officers.
(*Deck.*)

Captains of Parts of Ship.

Alfred W. Bramer
Raymond W. Curtis
Max A. Rancod
Laurence T. Sidelinker
James D. MacDonald
R. Allen S. Ryder
H. Bancroft Wilder, Jr.
Clifton V. Parker

(*Engineering.*)

F. Raymond Zeller, *Cadet Electrician*
Clifford H. Carlson, *Cadet Machinist.*

Special Ratings.

Richard G. Copeland, *Chief Quartermaster.*
Milton Breece, *Quartermaster, 1st Class.*
William F. Goldsmith, *Quartermaster, 2nd class.*
Clark D. Doran, *Quartermaster, 2nd class.*
Edward L. Greenleaf, *Chief Carpenter's Mate.*
Gerard M. Normand, *Carpenter's Mate, 1st class.*
Henry O. Billings, *Chief Gunner's Mate.*

WINTER TERM, 1927–28.

Richard G. Copeland, *Cadet Master.*

Navigation.

Milton Breece	*Cadet First Officer.*
Clifton V. Parker	*Cadet Second Officer.*
Laurence T. Sidelinker	*Cadet Third Officer.*

Engineering.

Ernest G. Leavitt	*Cadet Engineer.*
James E. Saviski	*Cadet First Assistant Engineer.*
Chester B. Locklin	*Cadet Second Assistant Engineer.*

Petty Officers.

Captains of Tops.

Russell A. Dodge	William F. Goldsmith
Francis D. Eaton	William W. MacKenzie
William H. Haywood	William A. Musculus
John T. Barrett, Jr.	Muret C. Redman

Quartermasters.

Henry O. Billings	Howard A. Thayer
Maurice F. Dinneen	Clark D. Doran

Mates.

Raymond C. Kidd, *Gunner's Mate.*
Edward L. Greenleaf, *Carpenter's Mate.*
Gerard M. Normand, *Carpenter's Mate.*

Engineering.

James E. Whetton, *Machinist's Mate.*
Elliott S. Bunker, *Electrician.*

Cadets Admitted, Graduated and Honorably Discharged, from 1893 to 1927, inclusive.

	Admitted.	Graduated.			Honorably discharged.	Withdrawn, dismissed, dropped.	Number connected with the school.
		Seamanship Class.	Engineer Class.	Totals.			
1893	141	–	–	–	29	24	138
1894	63	–	–	–	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	133
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
Totals	2,540	665	610	1,275	685	463	–

Membership of the School.

Graduating Class, April, 1927.

Seamanship Division.

Dixon, Prescott L. . . . . Beverly.
Vanderhoop, C. Earl . . . . . Gay Head.
Simonsen, Christian, Jr. . . . . Jamaica Plain.
Glover, Kenneth B. . . . . Wilmington.
Hatch, Aylmer R. . . . . Ware.
Wells, Albert B. . . . . Melrose.
Edie, Ernest K., Jr. . . . . Wollaston.
Porter, William E. . . . . Lynn.
Thistle, Charles . . . . . Salem.
Doolan, Kenneth E. . . . . Athol.
Preble, Donald A. . . . . Wollaston.
Davis, Robert H. . . . . Somerville.
Sabine, John W. . . . . Auburn.
Lawson, Arthur E. . . . . Gloucester.

Engineering Division.

Brimner, W. Duncan . . . . . East Walpole.
Boys, Milburn G. . . . . Holyoke.
MacDiarmid, P. Edwin . . . . . Mansfield.
McCulloch, James A. . . . . Lee.
Norvish, Stephen F. . . . . Brockton.

Redmond, Charles O., Jr.	Lynn.
Allen, Gilbert L.	Attleboro.
Steele, Frederick E.	Malden.
Proctor, John	New Bedford.
Wildman, John	New Bedford.
McKinnon, William V.	South Boston.
Belhumeur, Maurice J. A.	Boston.

GRADUATING CLASS, OCTOBER, 1927.

Seamanship Division.

***Rounds, Allen P.**	Billerica.
***Nelson, William F.**	Brockton.
Lane, Howard F.	Forest Hills
Rancod, Max A.	Holyoke.
Williams, Donald B.	Worcester.
Bramer, Alfred W.	Brighton.
Curtis, Raymond W.	Taunton.
Wilder, H. Bancroft, Jr.	Newton Centre.
Bullen, H. Winthrop	Westboro.
Quandt, Theodore P.	Somerville.
MacDonald, James D.	Lynn.
Ryder, R. Allen S.	Chatham.
Alderman, Ralph D.	Springfield.

Engineering Division.

Rowe, Charles V.	Cambridge.
Zeller, F. Raymond	Whitman.
Jaeger, Edward F.	Mattapan.
McAuliffe, John B.	South Boston.
Carlson, Clifford H.	West Bridgewater.

CLASS TO GRADUATE APRIL, 1928.

Seamanship Division.

***Copeland, Richard G.**	Malden.
Parker, Clifton V.	Chilmark.
Breece, Milton	Gardner.
Sidelinker, Laurence T.	Wilmington.
MacKenzie, William W.	West Roxbury.
Dodge, Russell A.	Worcester.
Eaton, Francis D.	Waltham.
Cook, Austin W.	West Medford.
Mabee, Charles E.	Abington.
Davis, W. Nathaniel	Arlington.

Engineering Division.

Leavitt, Ernest G.	Mansfield.
Saviski, James E.	Brockton.
Locklin, Chester B.	Abington.
Whetton, James A.	Needham Heights.
Craig, Frederick W.	Salem.
Johnson, Irving O.	Lynn.
Bunker, Elliott S.	South Lincoln.
Forrest, John E.	North Easton.
Browning, Frederick D.	New Bedford.
Schofield, Patrick J.	South Boston.
Kennelty, Joseph P.	New Bedford.

(* Received 85 per cent of the academic multiple and entitled to wear gold star on coat collar.)

Class to Graduate October, 1928.

Seamanship Division.

***Thayer, Howard A.**	Chelmsford.
Normand, Gerard M.	New Bedford.
Redman, Muret C.	Waban.
Haywood, William H.	West Roxbury.
Tabrah, George R.	East Dedham.
Goldsmith, William F.	Jamaica Plain.
Billings, Henry O., Jr.	Walpole.
Musculus, William A.	Roslindale.
Greenleaf, Edward L.	Melrose.
Dineen, Maurice F.	Malden.
Finucane, Morgan J.	Fall River.
Patch, John H.	Beverly.
Holmes, Laurence N.	Malden.
Bulwich, Vitty	Worcester.
Kidd, Raymond C.	Melrose.
Swan, Earl M.	Beverly.
Barrett, John T. Jr.	Boston.
Lanagan, Charles W.	Chestnut Hill.
Small, Harrison D.	Melrose.
Doran, Clark D.	Fairhaven.
Sawaska, Joseph J.	West Lynn.

Engineering Division.

Torkington, Charles R.	Lawrence.
Krook, George C.	Mittineague.
Hodson, Albert C.	Reading.
Guidette, Mario L.	Springfield.
Downie, Malcolm W.	Mittineague.
Barnes, George H.	Marshfield.
MacKenzie, Roderick H.	Roxbury.
Rudis, Jacob	Worcester.
Brizard, Erle M.	Chicopee.
Clough, Edgar W.	Campello.

Class to Graduate April, 1929.

Woodland, Louis A., Jr.	Fall River.
Hotin, Homer R.	Holyoke.
Hannigan, Francis M.	Newton Centre.
Behmer, Royden W.	Worcester.
Smith, George W.	Newton Upper Falls
Johnson, Samuel E.	East Milton.
Haberlin, John P.	East Boston.
Tymoczko, Frank B.	Worcester.
Magarian, Hugh O.	Lynn.
Leary, William A.	Fall River.
Moyer, Allen M.	South Essex.
Parker, J. Henry	Springfield.
Christensen, Ove	Waltham.
Hill, James H.	Wollaston.
Healy, Weston	Fall River.
Fay, John A.	Dedham.
Frew, James A.	Quincy.
Brown, Austin L.	Millbury.
Hennessey, Joseph N.	Auburndale.
Sinclair, Oliver G.	Somerville.
Balevic, Joseph W.	Lowell.
Colby, Leroy S., Jr.	Lawrence.

(* Received 85 per cent of the academic multiple and entitled to wear gold star on coat collar.)

O'Connor, John J.	Wollaston.
Otto, William J., Jr.	Roslindale.
Smith, Roger K.	Brookline.
Pearce, Paul R.	Holyoke.
Donohue, Sylvester W.	Holyoke.
Ernst, Eric	Holyoke.
Peterson, Charles H.	Worcester.
Daniels, Henry W.	West Medway.
Buckley, Walter J.	Cambridge.
Cusick, John J.	Brighton.
Seaver, Joseph H., Jr.	Newton Lower Falls.
Dana, Donald P.	Boston.
Kingsbury, Robert A.	Waltham.
Langan, Philip T.	Jamaica Plain.
Dunn, Edward A.	West Springfield.
MacCurrach, Peter, Jr.	Hamilton.

Class to Graduate October, 1929.

(Alphabetically arranged.)

Carey, Fay E.	Marlboro.
Carnes, Matthew J.	Malden.
Chamberlin, Myron W.	Three Rivers.
Chapman, George H., Jr.	Lowell.
Colclough, Earl	Malden.
Corbett, Warren S., Jr.	West Roxbury.
Cox, C. David	Lunenburg.
Cushman, Austin D., Jr.	Everett.
Duke, George M.	Shrewsbury.
Dunham, Herbert W.	Danvers.
Endicott, Gilbert F.	Shrewsbury.
Gilman, William R.	East Pepperell.
Goodwin, John B.	Marblehead.
Hoyle, T. Gerard	Quincy.
Kinsman, George H.	Jamaica Plain.
Knight, John B., Jr.	Chicopee Falls.
Lambine, Oscar M.	East Walpole.
Loring, A. Franklin	Concord Junction.
McIntosh, Robert E.	Haverhill.
Merry, Charles G.	West Somerville.
Munroe, Earl R.	Dorchester.
Polley, Robert E.	Needham Heights.
Redmayne, Robert G.	Westwood.
Remmes, Joseph T.	Lawrence.
Rosso, William G.	Lynn.
Sears, Frank L.	Dalton.
Stone, Walter C.	Scituate.
Swan, William V.	Taunton.

REGISTER OF GRADUATES.

Officers in the Merchant Marine.

[* Enrolled in the United States Naval Reserve during the World War.]

Year.	Name.	Residence.	Position.	Vessel or Service.
1895	Clarence E. Perkins	Winthrop	Commissioner	Massachusetts Nautical School.
1898	Joseph E. Sheedy	Reading	–	United States Shipping Board.
1903	Nicholas J. Kane	Whitman	Superintendent	American-Hawaiian Line.

OFFICERS IN THE MERCHANT MARINE—*Continued.*

Year.	NAME.	Residence.	Position.	Vessel or Service.
1897	*Frederick W. Jones	Winchester	– –	U. S. Shipping Board, Washington, D. C.
1909	Robert S. Sparrow	Eastham	Assistant general agent	A. H. Bull Line.
1909	*John J. Coholan	South Boston	Marine superintendent	Galveston, Texas.
1911	Norris T. Ela	Douglas	Marine superintendent	Atlantic, Gulf & Pacific Corp., Baltimore, Md.
1911	*William M. Gorham	Winthrop	Manager	Kauai Marine Railway Co., Port Allen, Kauai, Hawaii.
1912	*John M. Marks	Gloucester	Superintendent	Yonkers Ferry.
1915	*Charles H. Hurley, Jr.	Gardner	Manager	Jarka & Co., Stevedores, Boston.
1919	Richard R. McNulty	Gloucester	Research department	U. S. Shipping Board, Washington, D. C.
1919	Joseph W. Gosselin	Lynn	Port superintendent	Port Newark S.S. Co.
1899	Edward G. Smith	Boston	Port captain	Freeport Sulphur Co.
1901	Theodore H. Bicknell	Melrose	Port captain	Union Sulphur Co.
1905	*Walter L. Smith	Ashburnham	Port captain	United States Shipping Board, Baltimore, Md.
1906	*William H. Lee	Malden	Port captain	Roosevelt Steamship Co
1918	Raymond E. Saunders	Somerville	Superintendent	Florida Railroad and Navigation Corp., Everglades, Florida.
1917	Herbert W. Susmann	Dorchester	Marine surveyor	Arthur Lee & Co.
1902	Herman T. Parker	Rockport	U.S. Steamboat inspector	Boston, Mass.
1905	Frederick S. Walker	Reading	U.S. Steamboat inspector	Providence, R. I.
1900	James F. Rawdon	Worcester	U.S. Steamboat inspector	Providence, R. I.
1911	*Charles F. Fornason	Marblehead	U.S. Steamboat inspector	Albany, N. Y.
1894	James E. Reardon	Roxbury	Captain	– –
1894	Henry G. Carpenter	Roxbury	Captain	"Canfield."
1894	Albert L. Warner	Wollaston	Captain	– –
1895	Walter J. Healey	Worcester	Captain	"Walter Jennings."
1895	Geo. L. P. Covell	Roxbury	Captain	"Henry S. Groves."
1895	Horace W. Folger	Wilmington	Captain	Boston Pilot Boat Service.
1896	*Wm. N. P. Baker	Dorchester	Captain	"Oakwood."
1896	Alvin W. Haynes	Somerville	Captain	"Cristobal."
1896	Henry R. Bodge	Wollaston	Captain	– –
1896	Geo. R. Lauriat	Medford	Captain	"Gen. Brannan."
1897	H. W. G. Atkins	Reading	Captain	– –
1897	*Herbert P. Smith	Nantucket	Captain	"Carplaka."
1897	Mina Dailey	Rockport	Captain	"Harwood."
1898	*Louis E. Congdon	Boston	Captain	"Swift Eagle."
1898	*Carl E. A. Anderson	Roslindale	Captain	"Missourian."
1898	Eldon G. Freeman	Whitman	Captain	Chief Pilot, San Francisco, Cal.
1898	*Charles H. Kilmer	Somerville	Captain	"District of Columbia."
1899	George F. Waite	Winthrop	Captain	U. S. Shipping Board.
1899	Walter S. Lynch	Chelsea	Captain	– –
1900	*James S. Howes	Woods Hole	Captain	Yacht "Seaborn."
1900	*E. Newton Parker	Greenfield	Captain	– –
1900	William B. Knight	Bellingham	Captain	"Catherine D."
1900	Alfred M. Cummings	Worcester	Captain	"Lancaster."
1900	I. Clarence Bailey	Kingston	Captain	Boston Pilot Boat Service.
1901	Charles D. Harrington	Boston	Captain	"Joseph R. Parrott."
1901	Robert W. Tucker	Kendal Green	Captain	"Hannawa."
1902	*A. Russell Cushing	Allston	Captain	– –
1902	*Arthur T. Luther	Swansea	Captain	Pilot, Panama Canal.
1902	Osborn E. McKay	Sagamore	Captain	Pilot, Panama Canal.
1902	*Edwin J. Madden	Everett	Captain	"Cody."
1902	*Fred C. Seibert	Greenfield	Captain	"Seekonk."
1903	Benj. O'Connell	Peabody	Captain	"Wheeling Mold."
1903	*Harry M. Bostwick	Northbridge	Captain	"Suscolanco."
1904	*Edward C. Roberts	No. Beverly	Captain	"Carillo."
1905	*Harold H. Gridley	Dorchester	Captain	"Darden."
1905	*James A. Crocker	Nahant	Captain	"J. R. Gordon."
1906	*George C. Bosson	Reading	Captain	"James S. Whitney."
1907	*Elmer B. Small	Reading	Captain	Pilot, Panama Canal.
1907	Frazier L. Sears	East Dennis	Captain	"Bramell Point."
1907	*Frederick L. Gainard	Chelsea	Captain	Atlantic Coast Pilot.
1908	*Eugene P. Shevlin	East Boston	Captain	"Ala."
1908	Chester B. Mellen	Quincy	Captain	– –
1908	*Edward S. Ells, Jr.	Haverhill	Captain	– –
1908	*Ernest F. Robinson	East Boston	Captain	Yacht "Chelsea."
1909	Harold C. Cooper	Worcester	Captain	"Polarine."
1909	*Carroll E. Higgins	Somerville	Captain	Marine Surveyor.
1909	*Eric E. Winquist	Mattapan	Captain	Pilot, New York.
1910	*Chester E. Morris	Springfield	Captain	– –
1911	*Wesley F. Besse	Somerville	Captain	– –
1911	*Harold S. Dexter	Mattapoisett	Captain	– –
1911	*Henry O. K. Hanson	Neponset	Captain	– –
1911	*Raymond C. Vose	Cambridge	Captain	"West Tacook."

OFFICERS IN THE MERCHANT MARINE—*Continued.*

Year.	NAME.	Residence.	Position.	Vessel or Service.
1911	*Eugene W. Miller	East Saugus	Captain	"Western Glen."
1912	*Clarence L. Howard	Wellesley	Captain	– –
1912	Russell A. Eastman	Mattapoisett	Captain	– –
1913	Philip J. Fanning	Needham	Captain	– –
1913	*Oliver P. Shattuck	West Acton	Captain	– –
1913	*Everett T. Swinson	East Gloucester	Captain	Pilot, Panama Canal.
1913	*John A. Maddock	Newburyport	Captain	– –
1914	John L. Kirchner	Hinsdale	Captain	New York, New Haven & Hartford Railroad tugs.
1914	*Gerard R. Crosby	Orleans	Captain	"Georgian."
1914	David H. Swinson	Gloucester	Captain	"Lake Flattery."
1914	Nelson T. Nutter	Newburyport	Captain	"Chamblee."
1914	*Geoffrey C. O'Donoghue	Roxbury	Captain	U. S. Custom Service.
1914	Edward F. Murphy, Jr.	Fall River	Captain	"Florence Luckenbach"
1914	*Samuel J. Lee	Malden	Captain	"Kerhonkson."
1915	Albert V. Jones	Fall River	Captain	"Pinthis."
1915	Charles N. Bamforth	Swampscott	Captain	"Pennsylvanian."
1915	*Leland M. Marshall	Allston	Captain	"Advance."
1915	Harold F. Craven	Lawrence	Captain	"Gulfland."
1915	*Charles E. Griffith	Cambridge	Captain	– –
1916	*William E. Lord	Springfield	Captain	"Major Wheeler."
1916	John A. Rylander	Springfield	Captain	"Mobile City."
1916	Clayton W. Collins	Waquoit	Captain	"Baytown."
1916	*John T. Crowell, Jr.	Gloucester	Captain	"Radio."
1917	Sydney L. MacLaughlin	Lexington	Captain	Yacht "Amida."
1917	Arthur S. Phelan	Lynn	Captain	"Tuscaloosa City."
1918	James E. Fraser	Boston	Captain	– –
1919	Harold T. Longmore	Stoneham	Captain	"Munleon."
1919	William B. Studley, Jr.	Fairhaven	Captain	– –
1920	Francis X. Landrey	Roslindale	Captain	"Suboatco."
1920	J. Francis Devlin, Jr.	Salem	Captain	"Stewart Dollar."
1921	Lawrence T. Sullivan	East Boston	Captain	"John Tracy."
1923	William T. Corfield	Roxbury	Captain	"Frieda."
1899	George W. Stetson	Somerville	First officer	"Sujerseyco."
1900	Clayton G. Parsons	Salem	First officer	"West Cape."
1902	*Arthur P. Jensen	Provincetown	First officer	– –
1906	*Lewis B. Butler	Worcester	First officer	– –
1907	Philip B. March	Brookline	First officer	"Ameland."
1912	*Herbert A. Burns	New Bedford	First officer	– –
1912	*Ralph E. Merithew	Haverhill	First officer	– –
1912	*Joseph M. Daniel	Osterville	First officer	– –
1913	James A. MacCabe	Osterville	First officer	– –
1913	Wilfred H. Senior	Dorchester	First officer	"Turmore."
1913	*Philip H. Waldron	East Milton	First officer	"Coahoma County."
1913	*Frederick L. Howland	So. Dartmouth	First officer	"Western Ally."
1913	*Ralph W. Dearborn	Mansfield	First officer	"Kansan."
1913	*Waldon A. McIntire	E. Gloucester	First officer	"Martha Washington."
1914	*Samuel A. Gates	Malden	First officer	"Oregonian."
1915	*Ralph S. Moore	Newton H'l'ds	First officer	"Steel Mariner."
1915	*Arthur A. Hovgaard	Brookline	First officer	"West Raritans."
1915	Ronald L. Ford	Lawrence	First officer	"Yukon."
1915	*William C. Davenport	New Bedford	First officer	"Minnekahda."
1915	Earle D. Hammond	E. Mattapoisett	First officer	– –
1915	Edward R. Rhodes	Lowell	First officer	"Edward L. Doheny."
1915	*Herman S. Mayo	Provincetown	First officer	"Kelverson."
1916	*Peter J. Jakmauh	South Boston	First officer	"West Inskip."
1916	*Richard H. Dunphe	Brockton	First officer	"Victorious."
1916	Harold R. Congdon	Somerville	First officer	"Amolco."
1916	Charles A. Martell	Somerville	First officer	"Montgomery City."
1916	Paul H. Browne	West Roxbury	First officer	"Atlas."
1916	*Edwin T. Fletcher	Springfield	First officer	"Wheaton."
1917	Stanley F. Roberts	Springfield	First officer	– –
1917	A. Henry Rowe	Roslindale	First officer	"Currier."
1917	Ivan Freeman	East Orleans	First officer	"Ossaban."
1918	Hartley Hoffses	Quincy	First officer	"Hickman."
1918	Max Distelman	Newburyport	First officer	"Lackawanna Bridge."
1918	Wilbur W. Woods	Provincetown	First officer	"Culberson."
1918	William S. Reagh	Wakefield	First officer	"Steel Traveler."
1918	G. Minard Cunningham	Lawrence	First officer	– –
1918	Jacob Popkin	Malden	First officer	"Yuka."
1918	Leonard C. Walen	Gloucester	First officer	"Deuel."
1918	Raphael W. Hill	Provincetown	First officer	"Agwihavre."
1919	Charles F. Bossom	Arlington	First officer	"Macerata."
1919	John W. Donahoe	Dorchester	First officer	"Transportation."
1920	Erwin F. Colburn	Somerville	First officer	"San José."
1920	*David F. Atwood	West Falmouth	First officer	"Ontario."
1920	George P. Lord	Salem	First officer	"Munoline."
1921	George J. Lavin	Melrose	First officer	– –
1921	George A. Perkins	No. Carver	First officer	"M. & J. Tracy."
1921	J. Blaisdell Wells	Medford	First officer	"Texan."
1922	Scranton H. Redfield	Lynn	First officer	"President Taft."
1922	Arthur O. Brady	Rockland	First officer	"Minnesotan."

OFFICERS IN THE MERCHANT MARINE—*Continued.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1922	Webster G. Farrell	Dorchester	First officer	"Limon."
1922	Kenneth C. Mayo	Provincetown	First officer	"Radio."
1922	Carroll P. Burgess	Plymouth	First officer	"Swiftsure."
1922	Edward C. Beatson	Ludlow	First officer	"Willwello"
1922	Vincent F. J. Hancock	Fall River	First officer	"Frank A. Morey."
1923	Roy W. Chamberlain	Lynn	First officer	"President Adams."
1925	Douglas MacMaster	Cambridge	First officer	"Henry D. Whiton."
1894	Alfred J. O'Leary	Worcester	Second officer	"Adacia."
1902	*George Castle	Lynn	Second officer	"Lake Fanning."
1904	Leslie F. Holmes	Whitman	Second officer	– –
1904	*Andrew J. Iverson	Beverly	Second officer	"Newton."
1904	*Charles H. Stoddard	Brookline	Second officer	– –
1906	John Ruyter	Rochester	Second officer	"Lake Ellio."
1907	Herbert Garity	Boston	Second officer	"Dorothy."
1910	Franklin K. Tyler	Beachmont	Second officer	"Saramacca."
1911	Roy G. Whittemore	Billerica	Second officer	"Hawaiian."
1912	Robert M. Gray	Melrose	Second officer	"Western Ocean."
1912	Harold L. Winslow	Canton	Second officer	"Leviathan."
1913	Frederick A. Stainforth	Winthrop	Second officer	"Paulsboro."
1913	John W. Crocker	Nahant	Second officer	"Western Spirit."
1914	*Joseph L. Turner	Amherst	Second officer	– –
1914	Ten Eyck H. Reed	S. Framingham	Second officer	"Panama."
1914	*William H. Fogarty	Dorchester	Second officer	"Afoundria."
1914	Laurence L. Horton	Eastham	Second officer	"Prince Frederick."
1915	George T. Horan	Allston	Second officer	"Steel Traveler."
1915	*Russell C. Damon	Hingham	Second officer	"Lake Ellsbury."
1915	*Curtis C. Fales	Westborough	Second officer	"Malabar."
1915	*Charles P. Jacobson	Everett	Second officer	"Oskawa."
1916	*Frank M. Perrin	Worcester	Second officer	– –
1916	Clifford E. Stanley	Salem	Second officer	– –
1916	Fred E. Wilcox	Indian Orchard	Second officer	– –
1917	*Percie A. Crosby	Everett	Second officer	"Chester Valley."
1917	*Earl S. Francis	Athol	Second officer	– –
1917	*William M. Preston	Beverly	Second officer	– –
1917	Charles F. Huffman	W. Somerville	Second officer	"West Hambrie."
1917	*Frank M. Moore	Forest Hills	Second officer	Ferry Service, Boston
1917	*Bradford S. Wilson	Brookline	Second officer	– –
1917	Donald MacWhinnie	New Bedford	Second officer	"Sinsinawa."
1917	David M. McLaren	Dedham	Second officer	"Finland."
1918	Geo. R. Stockbridge	Wellesley	Second officer	"Anacortes."
1918	James R. Moore	Lexington	Second officer	"Lake Sunapee."
1918	James J. Crowley	No. Abington	Second officer	– –
1918	James H. Lowry	Canton	Second officer	"Lake Ellesmere."
1918	Edgar G. Glines	Beverly	Second officer	"Watertown."
1918	Gerald K. Sanborn	Lawrence	Second officer	– –
1919	Robert S. O'Brion	Malden	Second officer	– –
1919	Richard F. Nickerson	So. Duxbury	Second officer	"Henry Groves."
1919	John J. Mahoney	Revere	Second officer	"Swift Wind."
1919	Harry E. Hopkins	No. Eastham	Second officer	"Shreveport."
1919	Ernest B. Waters	Nahant	Second officer	"La Perla."
1919	William H. Moulton	Bedford	Second officer	"F. J. Luckenbach."
1919	Charles E. Gilman	Somerville	Second officer	"Everett."
1919	Francis J. Harrington	Revere	Second officer	"Swift Eagle."
1919	Alfred A. Needham	Manchester	Second officer	"Loyal Legion."
1920	William S. Tyrrell	Cambridge	Second officer	"Montanan."
1920	Francis E. Donnelly	Roslindale	Second officer	"Jonancy."
1920	*Oswald J. Griffin	Fall River	Second officer	"Imlay."
1921	Charles G. Foster	Dennis	Second officer	"Ipswich."
1921	John A. Robertson	Boston	Second officer	"Georgian."
1921	Norman D. MacLellan	South Hanson	Second officer	"Finland."
1921	Edward F. Sise	West Medford	Second officer	"Pastores."
1921	Alphonsus J. Godfrey	Roxbury	Second officer	"F. J. Kellogg."
1922	William C. Mahoney	Somerville	Second officer	"Bayway."
1922	Malcolm O. Sillars	Danvers	Second officer	– –
1922	Everett A. Rhodes	Worcester	Second officer	"Southern Cross"
1923	Gerald P. Coleman	Melrose	Second officer	"West Honaker."
1923	Leman N. Wright	N. Abington	Second officer	"Steel Engineer."
1923	Paul R. Jones	Gloucester	Second officer	"Ohioan."
1923	John E. Handran	Rockport	Second officer	"Ardmore."
1923	John E. Wade	Amesbury	Second officer	"Commack."
1923	Duncan S. Baker	Manchester	Second officer	"Panaman."
1923	Edson B. Cates	Winthrop	Second officer	"Kansan."
1923	George R. Hickey	Rockland	Second officer	"Lancaster."
1923	George J. Andrews	Winthrop	Second officer	"Paul H. Harwood."
1923	Maurice L. Whelan	Whitman	Second officer	"Nebraskan."
1923	Richard E. Pendleton	Bryantville	Second officer	"Schoodic."
1924	Edward B. Ellis	Walpole	Second officer	"Sangamon."
1924	Robert H. Murphy	Barnstable	Second officer	"Missourian."
1924	Sydney Blackledge	Pottersville	Second officer	"Saugus."
1924	Arthur J. Walsh	Watertown	Second officer	"Eastern Crown."
1925	Joseph A. Scully	Rockland	Second officer	"Mevania."
1925	Frank S. Dowd	Fall River	Second officer	"Metapan."
1925	Henry K. Bradford	Saugus	Second officer	MS. "Muncove."

OFFICERS IN THE MERCHANT MARINE—*Continued.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1925	Malcolm E. Crossman	Taunton	Second officer	"W. S. Rheem."
1925	Harold V. Nerney	Attleboro	Second officer	"Munoline."
1925	Arthur J. Carnes	Malden	Second officer	– –
1905	*Laurence G. Kelley	Taunton	Third officer	– –
1912	Francis J. McGowan	Somerville	Third officer	"Lake Grampus."
1916	*Albert Bianchi	Worcester	Third officer	– –
1916	*J. Prescott Mahoney	West Wareham	Third officer	"Birmingham City."
1916	*Byron H. Paine	New Bedford	Third officer	"Minnekahda."
1917	Luther C. Kingsbury	Wellesley Hills	Third officer	"Yarmouth."
1918	Ira D. Dean	So. Natick	Third officer	"La Perla."
1918	Raymond P. Abbott	Newburyport	Third officer	"Sinsinawa."
1919	Sherman W. Reed	Lexington	Third officer	"Leviathan."
1919	Jack A. Fraser	Lowell	Third officer	"Missourian."
1919	Roy D. Hall	Dennis	Third officer	"Swift Light."
1919	*Harold B. Wilkinson	Lynn	Third officer	"Lake Galando."
1919	George A. Henderson	Brighton	Third officer	– –
1919	Walter W. Jenness	Malden	Third officer	"City of Atlanta."
1920	Daniel J. Coughlin	Lowell	Third officer	– –
1920	*Fred M. Full, Jr.	Rockport	Third officer	– –
1920	*Noble M. Hartley	Winthrop	Third officer	"Lake Fagundas."
1920	Mortimer P. O'Sullivan	West Medford	Third officer	"East Indian."
1920	*Laurence R. Jacques	Springfield	Third officer	"Mevania."
1920	*Fred C. B. Steinmetz	Springfield	Third officer	"Winona."
1920	Theodore Collins	Milton	Third officer	"Springfield."
1920	*Joseph G. Dean	Springfield	Third officer	"Astmahco."
1920	*Chas. A. Freeman, Jr.	Taunton	Third officer	"Lake Foch."
1920	*Richard B. Taylor	W. Somerville	Third officer	"Romulus."
1920	*Ralph E. Tilton	Fitchburg	Third officer	"Crawl Keys."
1920	John F. Hannan	Mattapan	Third officer	"Egremont."
1920	Charles R. Clarke	Lynn	Third officer	"Minnesotan."
1920	Alex. M. S. Paddock	Cambridge	Third officer	"Morristown."
1920	Raymond A. Bowen	Gloucester	Third officer	"Red Mountain."
1921	Roger J. O'Sullivan	West Medford	Third officer	– –
1921	Philip W. Atkinson	Fitchburg	Third officer	– –
1922	Edwin S. Baker	Manchester	Third officer	"Cold Harbor."
1922	Ernest D. Murray	Everett	Third officer	"President Madison."
1922	John F. Mulvey	Roslindale	Third officer	"West Calumb."
1922	George Worth	Cambridge	Third officer	"Harwick Hall."
1922	Robert M. Pierce	Rockport	Third officer	"Ohioan."
1923	Edward P. McGourthy	Roxbury	Third officer	"Lorrain."
1923	Charles E. Brown	Eastham	Third officer	"West Campgaw."
1924	James W. O'Brien	Springfield	Third officer	"Edward L. Doheny."
1924	Robert S. Gale	Watertown	Third officer	"San Mateo."
1924	John F. Doyle	Holyoke	Third officer	"Mobile City."
1924	J. William Malen	Gloucester	Third officer	"Floridian."
1924	Joseph H. Masse	Everett	Third officer	"Kentuckian."
1924	Ralph E. Jernberg	Worcester	Third officer	"Steelmaker."
1925	James F. Donovan	Lawrence	Third officer	"Swiftwind."
1925	Harvey J. Reynolds, Jr.	Duxbury	Third officer	"Charcas."
1925	Henry A. Lee	Beachmont	Third officer	"Cornucopia."
1925	Thomas A. Jacobs	Amesbury	Third officer	"Manhattan Island."
1925	Stephen T. Gill	No. Eastham	Third officer	"Ohioan."
1925	Harold M. Mann	Boston	Third officer	"Nile."
1925	Edward C. Pilote	Whitman	Third officer	"La Perla."
1925	John P. Binney	Milford	Third officer	"Mundelta."
1925	James E. Walsh	Watertown	Third officer	"Munoline."
1925	Winslow M. Rouse	Roxbury	Third officer	"Fairfield City."
1925	Paul L. Litchfield	Dracut	Third officer	"West Harcouver."
1926	Ernest A. M. Lewerenz	Roxbury	Third officer	– –
1926	Elwyn W. Hersey	No. Weymouth	Third officer	"Floridian."
1926	William A. Bradford, Jr.	Saugus	Third officer	"Iowan."
1926	Richard T. Rounds	Billerica	Third officer	"Levisa."
1926	Earle B. Vaux	East Lynn	Third officer	"Missourian."
1926	Wendell G. Ames	Medford	Third officer	– –
1926	Harold A. Weston	Salem	Third officer	– –
1926	Josiah B. Dunlap	Plymouth	Third officer	"Sunewarkco."
1926	John H. Francis	Avon	Third officer	"Suternico."
1926	Paul G. Hirst	Amesbury	Third officer	"Halsey."
1926	A. William Fallis	Atlantic	Third officer	"Sujerseyco."
1926	Frank E. Wirtanen	W. Barnstable	Third officer	"Suholco."
1927	Albert B. Wells	Melrose	Third officer	– –
1927	Robert H. Davis	Somerville	Third officer	"Argosy."
1927	Kenneth E. Doolan	Athol	Third officer	"J. A. Bostwick."
1927	John W. Sabine	Auburn	Third officer	"Sunewco."
1927	Howard F. Lane	Forest Hills	Third officer	"Henry D. Whiton."
1927	Allen P. Rounds	Billerica	Third officer	"Penobscot"
1927	Donald A. Preble	Wollaston	Third officer	"Munloyal"
1927	Christian Simonsen	Jamaica Plain	Third officer	"La Perla."
1927	Charles Thistle	Salem	Third officer	"Suscolanco."
1924	William H. Jacobs	Gloucester	Fourth officer	"Southern Cross."
1927	Aylmer R. Hatch	Ware	Fourth officer	"Southern Cross."
1927	Donald A. Preble	Wollaston	Fourth officer	"Pan American."
1927	William E. Porter	Lynn	– –	Yacht "Amida."

OFFICERS IN THE MERCHANT MARINE—*Continued.*

Year.	NAME.	Residence.	Position.	Vessel or Service.
1900	*Hollis M. Cornwall	Melrose	Marine superintendent	Merchants and Miners Transportation Co.
1907	Paul R. Smith	Concord	Superintending engineer	Roosevelt Steamship Co.
1905	Charles F. Tarr	Taunton	Port engineer	United States Shipping Board, Philadelphia.
1901	Sidney A. Maglathlin	W. Bridgewater	Supervising engineer	Insurance Co., Boston.
1895	Michael D. Sullivan	Worcester	Chief engineer	"Rosecrans."
1896	*James H. B. Meehan	Lowell	Chief engineer	– –
1898	Charles E. Perry	Hyde Park	Chief engineer	"Bibbco."
1898	Frank B. Killion	Malden	Chief engineer	"Kilauea."
1898	William E. Ballsdon	Neponset	Chief engineer	"Herman Winter."
1898	Wilbur S. Lamont	Leominster	Chief engineer	"West Hargrave."
1898	*Everett S. Ransom	E. Mattapoisett	Chief engineer	– –
1898	Charles E. Rowe	Lynn	Chief engineer	– –
1898	*John C. Ganser	Jamaica Plain	Chief engineer	"Bird City."
1900	Elmer P. Butterworth	Foxboro	Chief engineer	"West Celina."
1900	William Glover	Wilmington	Chief engineer	Eastern S. S. Co.
1901	*Eugene I. K. Murphy	Worcester	Chief engineer	– –
1901	David W. Warren	Everett	Chief engineer	"Northland."
1901	*Robert A. Patterson	Cambridge	Chief engineer	– –
1902	Daniel F. Butler	Waltham	Chief engineer	"Gloria."
1903	James S. McGarry	Shrewsbury	Chief engineer	"El Alba."
1903	*Edmund E. Powers	Cambridge	Chief engineer	"Texarkana."
1904	*Cecil L. McIntyre	Ashmont	Chief engineer	"Olen."
1905	*Fred G. Carlton	Maynard	Chief engineer	"H. D. Morse."
1906	*Augustus C. Caldwell	Dorchester	Chief engineer	– –
1906	Victor M. Foster	Revere	Chief engineer	– –
1906	Bradford N. A. Gladding	New Bedford	Chief engineer	– –
1906	*Arthur G. Burbank	Carver	Chief engineer	– –
1907	*George H. Stickney	Watertown	Chief engineer	– –
1907	*Samuel P. Osgood	Middleboro	Chief engineer	"Bessemer City."
1907	*Archie E. Bragg	New Bedford	Chief engineer	– –
1908	*Thomas B. Pellett	Worcester	Chief engineer	– –
1909	*Everett B. Ward	Lynn	Chief engineer	– –
1909	*William A. Sullivan	East Boston	Chief engineer	Mine sweeper.
1909	*Leo A. Keating	Natick	Chief engineer	"F. J. Luckenbach."
1909	Fritz T. Kebler	Rochdale	Chief engineer	– –
1909	Richard K. Henry	Pittsfield	Chief engineer	"Silverbrook."
1909	*Samuel J. Miller	Fall River	Chief engineer	"Lehigh."
1910	George W. Sibley	Worcester	Chief engineer	"Geo. W. Barnes."
1910	Leslie L. Badger	Roxbury	Chief engineer	"Saccarappa."
1910	R. Wilbur Anderson	Mattapan	Chief engineer	"Passaic Bridge."
1911	*Robert F. Phinney	Mattapan	Chief engineer	"Westbrook."
1911	John P. Lundergan	Brockton	Chief engineer	"Edward Luckenbach."
1911	Harvey M. Thorndike	Cliftondale	Chief engineer	"El Capitan."
1912	William A. Hamilton	Cliftondale	Chief engineer	– –
1912	Richard K. O'Connell	No. Easton	Chief engineer	"Nelson."
1912	*Richard J. Cavanaugh	New Bedford	Chief engineer	"Agwipond."
1914	*Arthur C. Goodwin	Somerville	Chief engineer	"Natirar."
1914	Joseph L. Concannon	Melrose	Chief engineer	– –
1915	*Philip J. Durney	Gloucester	Chief engineer	"Gloucester."
1918	John R. Donlin	Medford	Chief engineer	– –
1919	Warren L. Bailey, Jr.	Worcester	Chief engineer	– –
1897	Augustus T. Holmes	Ipswich	First assistant engineer	"J. M. Guffy."
1900	Earle P. Marshall	No. Easton	First assistant engineer	"Lake Buckeye."
1901	*Ernest E. Sackett	Lynn	First assistant engineer	"Wampum."
1902	Augustus W. Hart	No. Truro	First assistant engineer	– –
1904	*Benj. L. Welch	Lynn	First assistant engineer	"Eastern Chief."
1904	Edward J. Chadbourne	Reading	First assistant engineer	– –
1904	William Stewart	Charlestown	First assistant engineer	– –
1907	*Joseph R. Wier	Saundersville	First assistant engineer	"Mexican."
1909	*William E. Caddigan	Dorchester	First assistant engineer	– –
1910	Harold C. Grover	Stoneham	First assistant engineer	"Nobles."
1912	Louis H. Racicot	W. Somerville	First assistant engineer	"Paul H. Harwood."
1913	Paul S. Rice	Cambridge	First assistant engineer	"Arlington."
1913	Russell A. McLay	Lawrence	First assistant engineer	"Currier."
1914	Leslie T. Severance	Cambridge	First assistant engineer	"Malden."
1914	Fred H. Brewster	Somerville	First assistant engineer	– –
1914	Benj. H. Allen, Jr.	Lawrence	First assistant engineer	"Cambrai."
1914	James A. Sweeney	East Boston	First assistant engineer	– –
1914	Charles P. Tucker	Boston	First assistant engineer	"Northern Wave."
1915	Stanislaus P. J. Ciolkosz	Taunton	First assistant engineer	"Deuel."
1915	*Roy C. Hartwell	Boston	First assistant engineer	"Arizonan."
1915	Arthur F. Higgins	Lawrence	First assistant engineer	"Castlewood."
1915	*Clarence E. Stevens, Jr.	W. Barnstable	First assistant engineer	– –
1915	*Bernhardt Gerecke	Boston	First assistant engineer	– –
1916	*Henry A. Guba	New Bedford	First assistant engineer	"Lake Benton."
1916	*John E. Pilkington	Mansfield	First assistant engineer	"Hoven."
1916	*Paul Gorman	Marlboro	First assistant engineer	"Chickasaw City."
1916	*Carl E. Berglund	Brockton	First assistant engineer	"Toledo."
1916	*Alex. J. Phillips	Easton	First assistant engineer	"Boundbrook."
1916	George E. Harrington	Worcester	First assistant engineer	"President Harding."

OFFICERS IN THE MERCHANT MARINE—*Continued.*

Year.	NAME.	Residence.	Position.	Vessel or Service.
1917	*Ernest C. Jensen	Provincetown	First assistant engineer	– –
1917	Ernest E. Raby	No. Easton	First assistant engineer	"Liberty Minquist."
1917	*Arthur D. Murphy	Beverly	First assistant engineer	– –
1918	Raymond H. Sample	Montello	First assistant engineer	"Swiftsure."
1919	Guy M. Hanna	Waltham	First assistant engineer	"Bogata."
1919	Loran H. Sanford	Beverly	First assistant engineer	"F. Q. Barstow."
1919	Roger N. Walcott	Concord	First assistant engineer	"Swiftarrow."
1919	Edward H. Morin	Stoneham	First assistant engineer	"Eastern King."
1919	John D. Cunningham	Quincy	First assistant engineer	"Mevania."
1921	Gerald D. Murphy	Campello	First assistant engineer	– –
1921	Frederick L. Murphy	Roxbury	First assistant engineer	"San Mateo."
1921	Albert I. Pilkington	Mansfield	First assistant engineer	"David McKelby."
1922	Roy Y. Gordon	Somerville	First assistant engineer	– –
1923	Walter J. Murphy	Roxbury	First assistant engineer	– –
1924	Edmond P. Martin	Lynn	First assistant engineer	– –
1903	Harold A. Thompson	S. Framingham	Second assistant engineer	– –
1904	*William A. Danforth	Dorchester	Second assistant engineer	– –
1909	Arthur E. Whiton	Greenwood	Second assistant engineer	"Norwood."
1909	*Frederick H. H. Sylvia	Nantucket	Second assistant engineer	– –
1910	William Bowen	Boston	Second assistant engineer	"Bunker Hill."
1911	David J. Fulton	Wollaston	Second assistant engineer	"Pluto."
1911	George L. Lockhart	Wakefield	Second assistant engineer	"Orion."
1911	*Alfred Marques	Charlestown	Second assistant engineer	– –
1911	Samuel D. White	Hyannisport	Second assistant engineer	"Edward Pierce."
1912	George R. Davison	Springfield	Second assistant engineer	"Ancon."
1913	*Charles J. Balboni	New Bedford	Second assistant engineer	"Bessemer."
1913	Edward J. Fogarty	East Boston	Second assistant engineer	"Ockenfels."
1914	*C. Harold Peterson	Norwood	Second assistant engineer	– –
1915	*John Holmes	Campello	Second assistant engineer	– –
1915	*Sherman J. Barrett	Lawrence	Second assistant engineer	– –
1916	*William W. Thomas	Concord	Second assistant engineer	– –
1916	*Harold W. Sanford	Springfield	Second assistant engineer	– –
1917	Herbert A. James	Wellesley Farms	Second assistant engineer	"Lake Lida."
1917	*John T. Foye	Bridgewater	Second assistant engineer	– –
1917	Dwight W. Boyd	Randolph	Second assistant engineer	"Lake Ellendale."
1918	Joseph Freeman	Revere	Second assistant engineer	"Artegas."
1918	Elmer J. Kelley	Springfield	Second assistant engineer	"Lake Grogan."
1918	Stuart R. Colson	Whitman	Second assistant engineer	"O. T. Waring."
1918	Leroy B. Lowey	Woods Hole	Second assistant engineer	"Swiftwind."
1918	Francis J. Easton	Randolph	Second assistant engineer	"Branbrinno."
1918	Louis H. Johnson	Andover	Second assistant engineer	"Lake Sapor."
1919	Thomas F. Cotter	Lawrence	Second assistant engineer	– –
1919	Frank J. Couble	Brockton	Second assistant engineer	"Pocahontas."
1920	Arthur G. Berteaux	Boston	Second assistant engineer	– –
1920	John L. Flanagan	Lawrence	Second assistant engineer	"Imlay."
1920	John D. Young	Winthrop	Second assistant engineer	"President Van Buren."
1922	Lloyd M. Johnson	Brighton	Second assistant engineer	"San Mateo."
1923	Lorenzo H. Smith	So. Weymouth	Second assistant engineer	"Norwalk."
1923	Arthur F. Cole	West Lynn	Second assistant engineer	"Eastern Crown."
1923	Elmer H. Bridge	Fall River	Second assistant engineer	"Swift Light."
1923	John A. Hey	Lawrence	Second assistant engineer	"Mary."
1924	Ellery H. Capen	New Bedford	Second assistant engineer	"Steel Navigator."
1925	Adelbert H. Smith	Dracut	Second assistant engineer	"Wilton."
1925	Joseph W. MacDiarmid	Mansfield	Second assistant engineer	"Steel Inventor."
1904	Thomas F. Gosnay	Wakefield	Third assistant engineer	– –
1907	Charles S. McDonald	Malden	Third assistant engineer	– –
1911	Walter P. Lynn	Beverly	Third assistant engineer	"Lake Copley."
1911	Joseph C. Chisholm	No. Billerica	Third assistant engineer	– –
1911	*Levi E. MacLeod	Gloucester	Third assistant engineer	– –
1913	*Nils J. Peterson	Brockton	Third assistant engineer	– –
1915	*Wilfred C. Herron	Lawrence	Third assistant engineer	– –
1916	Carleton G. Reed	Lexington	Third assistant engineer	– –
1916	Richard A. Standley	Beverly	Third assistant engineer	"Lake Benton."
1917	Philip H. Little	Holbrook	Third assistant engineer	"Lake Forney."
1918	John R. Carden	Haverhill	Third assistant engineer	"Lake Fernwood."
1918	Ralph A. Evers	Somerville	Third assistant engineer	"Swift Eagle."
1918	Karl W. Newman	Brockton	Third assistant engineer	"De Soto."
1919	George C. Clements	Lynn	Third assistant engineer	"Vanguard."
1919	Carl W. Holmes	No. Easton	Third assistant engineer	"City of Rome."
1919	Charles B. Mitchell	Lawrence	Third assistant engineer	"Malden."
1919	Harding Smith	Nantucket	Third assistant engineer	"Floridian."
1919	James F. Beatty	Lowell	Third assistant engineer	"Durango."
1920	Lorenzo C. Brown	Everett	Third assistant engineer	"Resolute."
1920	James N. Oldroyd	Lynn	Third assistant engineer	"Lake Butler."
1920	Earle F. Clegg	Worcester	Third assistant engineer	"Puget Sound."
1920	Robert D. Mariner	Cambridge	Third assistant engineer	– –
1920	Ralph B. Warner	Marlboro	Third assistant engineer	– –
1920	*Joseph H. Donahue	Lawrence	Third assistant engineer	Gulf Refining Co.
1920	Chesley L. Kenyon	Huntington	Third assistant engineer	"Maddegat."
1922	Lawrence E. Dorgan	Brockton	Third assistant engineer	– –
1922	Frederick W. Mahoney	Somerville	Third assistant engineer	"Leviathan."
1922	George F. Carreiro	Fall River	Third assistant engineer	"Richard Peck."
1923	Thomas F. Fairbrother	No. Billerica	Third assistant engineer	"Seattle Spirit."

Officers in the Merchant Marine—*Concluded.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1923	Augustin P. Heffron	Marlboro	Third assistant engineer	"Osage."
1923	Edmond M. Hourigan	Dorchester	Third assistant engineer	"Penobscot."
1924	Daniel C. Seed	Adams	Third assistant engineer	"Sixeola."
1924	James E. Slattery	Westboro	Third assistant engineer	"San José."
1924	Webster F. Harrington	So. Lincoln	Third assistant engineer	"C. J. Drake."
1924	Aubrey C. Allen	Marlboro	Third assistant engineer	"Imlay."
1924	Paul W. Anderson	No. Easton	Third assistant engineer	"Muneastern."
1924	James A. MacDonald	Tewksbury	Third assistant engineer	"Herbert G. Wylie."
1924	Ralph L. Langille	South Boston	Third assistant engineer	"Meteor."
1924	Norman S. Gilchrist	Chatham	Third assistant engineer	– –
1924	Edwin S. Evans	Paxton	Third assistant engineer	"Virginian."
1925	John G. Moore	Roxbury	Third assistant engineer	"Swiftarrow."
1925	John E. Nee	Concord Jct.	Third assistant engineer	"Metapan."
1925	Acer N. Hilbourne	Cliftondale	Third assistant engineer	– –
1925	William R. Fallon	Dorchester	Third assistant engineer	"Leviathan."
1925	Harold W. Bradbury	Cliftondale	Third assistant engineer	"Esparta."
1925	Folke C. Johnson	No. Easton	Third assistant engineer	– –
1925	John E. Reagan	Fall River	Third assistant engineer	"Middlesex."
1925	Paul W. Fellows	Reading	Third assistant engineer	"Louis K. Thurlow."
1925	Richard G. Aaron	Allston	Third assistant engineer	"Mevania."
1926	Albert A. Corkhill	Methuen	Third assistant engineer	"Java Arrow."
1926	Herbert Hooper	Springfield	Third assistant engineer	"Willwello."
1926	John B. Ashton	Millbury	Third assistant engineer	– –
1926	John F. Harty	Charlestown	Third assistant engineer	– –
1926	John J. Woodlock	Mansfield	Third assistant engineer	"David McKelvy."
1926	Elwin A. Pilkington	Mansfield	Third assistant engineer	"Chippewa."
1926	Edward R. Coyle	Taunton	Third assistant engineer	"Munisla."
1926	Thomas E. O'Donovan	Dorchester	Third assistant engineer	"Levisa."
1926	Harry L. Young	Attleboro	Third assistant engineer	"Swiftwind."
1926	Boyd Dunbar	Hyde Park	Third assistant engineer	"Metapan."
1926	William A. Halliden	Wollaston	Third assistant engineer	"Lemuel Burrill."
1926	Frederick D. Hoitt	W. Somerville	Third assistant engineer	"West Pool."
1926	Marshall W. Jones	Cambridge	Third assistant engineer	– –
1926	Charles E. L. Kimball	Quincy	Third assistant engineer	"Carillo."
1927	P. Edwin MacDiarmid	Mansfield	Third assistant engineer	"Cayonambi."
1927	John Proctor	New Bedford	Third assistant engineer	"Zacapa."
1927	Frederick E. Steele	Malden	Third assistant engineer	"Corrillo."
1923	Walter C. Bathelt	Holyoke	Fourth assistant engineer	"San Bruno."
1924	William J. Moran	Millis	Fourth assistant engineer	"West Kedron."
1926	Clyde R. Coburn	Hyde Park	Fourth assistant engineer	"Paul Luckenbach"
1927	Gilbert L. Allen	Attleboro	Fourth assistant engineer	"Leviathan."
1927	Milburn G. Boys	Holyoke	Fourth assistant engineer	"President Harding."
1927	John Wildman	New Bedford	Fourth assistant engineer	"Leviatian."

Special Employment with the General Electric Company.

Marine Department.

(Honor Engineer Graduates.)

1925	Laurence B. Swan	North Adams	Special employment	General Electric Co.
1926	Norman L. Queen	Needham H'g'ts	Special employment	General Electric Co.
1927	W. Duncan Brimner	East Walpole	Special employment	General Electric Co.
1927	Charles V. Rowe	Cambridge	Special employment	General Electric Co.

Instructors.

1909	*Ervin L. Kelley	Dorchester	Chief engineer	U. S. S. "Nantucket."
1912	*Norman E. Merrill	Cambridge	Executive officer	U. S. S. "Nantucket."
1917	William W. Storey	Jamaica Plain	Navigator	U. S. S. "Nantucket."
1917	Alton E. Borden	Fall River	Watch officer	U. S. S. "Nantucket."
1922	John D. Bosler	Holyoke	Assistant engineer	U. S. S. "Nantucket."

The United States Navy.

1906	*Howard G. Copeland	Malden	Commander, U.S.N.R.	– –
1907	Thomas Baxter	South Dennis	Lieutenant commander	U. S. S. "Holland."
1898	Clarence E. Wood	Fall River	Lieutenant commander	(Ret.)
1898	James H. Willey	Brighton	Lieutenant commander U. S. N. R.	12th Naval District.
1898	Herbert E. Fish	Charlestown	Lieutenant	U. S. S. "Relief."
1902	John F. Murphy	Worcester	Lieutenant	U. S. S. "Florida."
1910	Russell H. Sullivan	Westfield	Lieutenant (s. c.)	11th Naval District.

The United States Navy—*Concluded.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1906	William R. Dolan	Worcester	Lieutenant	Coco Solo, C. Z.
1916	Darrough S. Gurney	Marion	Lieutenant	U. S. Navy Yard, Philadelphia.
1917	Philip G. Nichols	Peabody	Lieutenant (j. g.)	U. S. S. S-46.
1922	Eliot Olsen	East Milton	Ensign	U. S. S. "West Virginia"
1899	Leroy Neil	Lynn	Chief machinist	Navy Yard, Philadelphia.
1911	James D. Turnbull	Bridgewater	Pay Clerk	– –
1915	Frank L. Nimmo	Cambridge	– –	U. S. S. "Wandank."

The United States Marine Corps.

1903	Leander A. Clapp	Brockton	Major	Headquarters, Washington.
1906	Clarence E. Nutting	Cambridge	Major	Parris Island, S. C.

The United States Lighthouse Service.

1895	George E. Eaton	Woods Hole	Superintendent	Second Lighthouse District, Boston.
1904	John F. Williamson	Brockton	Captain	U. S. L. H. T. "Speedwell."
1905	Harry W. Maynard	Winthrop	Captain	U. S. L. H. T. "Hyacinth."
1907	*William M. Gifford	Woods Hole	First officer	U. S. L. H. T. "Anemone."
1925	Joseph D. Barnicle	Waltham	Machinist	U. S. L. H. T. "Anemone."

The Engineer Corps, United States Army.

1921	Thomas J. Mew	Holyoke	Second assistant engineer	"Dan C. Kingman."
1923	Frederick N. Dodd	E. Lynn	Second assistant engineer	"Rossell."

The United States Coast Guard Service.

1895	Philip W. Lauriat	Medford.	Commander	Commanding, Florida East Patrol Coast.
1897	Lorenzo C. Farwell	Dorchester	Commander	Section Base 3.
1899	James A. Alger	Reading	Commander	"Manning."
1896	Webb C. Maglathlin	Bridgewater	Lieutenant commander	Newport News.
1897	Albert F. Patterson	Townsend	Lieutenant commander	"Seminole."
1906	William F. Towle	Boston	Lieutenant commander	"McDougal."
1906	Henry C. Roach	New Bedford	Lieutenant commander	"McDougal."
1906	*Charles G. Plummer	Mansfield	Lieutenant	"Tuscarora."
1919	Arthur G. Morrill	Melrose	Lieutenant (j. g.)	"Paulding."
1922	Angus S. MacIntyre	Provincetown	Lieutenant (j. g.)	"Ammen."
1923	Julius F. Jacot	Beachmont	Lieutenant (j. g.)	Washington, D. C.
1919	Paul E. Purdy	Everett	Ensign	"Beale."
1919	*Gordon A. Littlefield	Cambridge	Ensign	"Cassin."
1919	Harry C. Howe	Stoneham	Ensign	"Wainwright."
1925	Richard L. Horne	Gloucester	Ensign	"Mojave."
1925	Stanley F. Piekos	Salem	Cadet	New London, Conn.
1912	Kenneth E. Cahoon	West Tisbury	Boatswain	"Acushnet."
1916	Randall F. Elder	Brighton	Boatswain	– –
1917	Ernest V. Wyatt	Boston	Boatswain	"Bonham."
1917	Russell W. Thresher	Southbridge	Boatswain	"Wolcott."
1917	Alan R. Barton	Winthrop	Boatswain	– –
1919	G. F. Paul Stone	Pigeon Cove	Boatswain	– –
1920	Charles H. Bartlett	Roslindale	Boatswain	"Burrows."
1923	Raymond B. Newell	Revere	Boatswain	"Beale."

The Hydrographic Office, Navy Department.

1900	Gershom Bradford	Duxbury	Associate nautical engineer	Washington, D. C.
1918	Alexander G. Anderson	Dorchester	Assistant nautical engineer	Washington, D. C.
1918	James R. Heaney	E. Lynn	Assistant nautical engineer	Washington, D. C.
1919	Charles B. Scully	Rockland	Assistant nautical engineer	Washington, D. C.
1919	Walter J. Cronin	Somerville	Assistant nautical engineer	Washington, D. C.
1918	James C. MacKenzie	Dorchester	Senior engineering aid	Washington, D. C.
1920	William G. Watt	Auburndale	Junior nautical engineer	Washington, D. C.

Ship Construction.

Year.	Name.	Residence.	Position.	Vessel or Service.
1895	Charles H. Lincoln	Gloucester	Marine surveyor and inspector	– –
1916	*Howard U. Chase	Nantucket	Superintendent	South Beach Boat Co., Nantucket.
1903	Edward J. Hogan	Charlestown	Assistant superintendent	Navy Yard, Boston.
1909	Stanton Haversham	Bridgeport	Hull draftsman	Lake Torpedo Boat Co.
1905	Reginald W. Burdekin	Northampton	Induction motors	General Electric Co.
1923	Alfred Humphries	Salem	Assistant foreman	General Electric Co.
1924	Percy J. Lewis	Lynn	Sales engineer	Ingersoll Rand Co., Diesel engineers.
1924	Earle B. Downing	E. Lynn	Erecting turbines	General Electric Co.
1924	Albert R. Henreckson	Sharon	Plant engineer	General Electric Co.

Appropriations.

The appropriations for the school for the fiscal year 1927, from December 1, 1926, to November 30, 1927, are here accounted for as follows:

Expenses of Schoolship.	Appropriation.	Expenditures.
Personal services	$45,300 00	$43,074 05
Travel, transportation and office expenses	1,750 00	2,029 45
Food	21,500 00	23,809 94
Furnishings and household supplies	900 00	994 33
Medical and general care	1,500 00	1,364 40
Heat, light, power, etc.	9,800 00	7,990 40
Repairs, ordinary	2,900 00	3,593 08
Miscellaneous	4,150 00	3,505 73
Appropriation by the Commonwealth [1]	$87,800 00	$86,361 38
Unexpended balance	–	1,438 62
	$87,800 00	$87,800 00

Expenses of Commission.	Appropriation.	Expenditures.
Personal services	$4,350 00	$4,220 00
Unexpended balance	–	130 00
	$4,350 00	$4,350 00
Office supplies and equipment	330 00	298 10
Traveling and other services and expenses	2,070 00	2,006 25
Appropriation by the Commonwealth [1]	$2,400 00	$2,304 35
Unexpended balance	–	95 65
	$2,400 00	$2,400 00

[1] The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

The estimates for the year 1928, are as follows:

Expenses of Schoolship	$90,882.
Expenses fo Commission	2,312.
Personal Service	4,520.

Respectfully submitted,

_____, *Chairman.*
WILLIAM E. McKAY
CLARENCE E. PERKINS.

Boston, December 1, 1927.

FEDERAL LEGISLATION.

H. R. 24145. Approved March 4, 1911.
(Original Act passed June 20, 1874.)

AN ACT FOR THE ESTABLISHMENT OF MARINE SCHOOLS, AND FOR OTHER PURPOSES.

That the Secretary of the Navy, to promote nautical education, is hereby authorized and empowered to furnish, upon the application in writing of the governor of a State, a suitable vessel of the navy, with all her apparel, charts, books, and instruments of navigation, provided the same can be spared without detriment to the naval service, to be used for the benefit of any nautical school, or school or college having a nautical branch, established at each of the following ports of the United States: Boston, Philadelphia, New York, Seattle, San Francisco, Baltimore, Detroit, Saginaw (Michigan), Norfolk, and Corpus Christi, upon the condition that there shall be maintained at such port a school or branch of a school for the instruction of youths in navigation, steamship-marine engineering, and all matters pertaining to the proper construction, equipment, and sailing of vessels or any particular branch thereof.

SECTION 2. That a sum not exceeding the amount annually appropriated by any State or municipality for the purpose of maintaining such a marine school or schools or the nautical branch thereof is hereby authorized to be appropriated for the purpose of aiding in the maintenance and support of such school or schools: *provided, however,* that appropriations shall be made for one school in any port heretofore named in section one and that the appropriation for any one year shall not exceed twenty-five thousand dollars for any one school.

SECTION 3. That the President of the United States is hereby authorized, when in his opinion the same can be done without detriment to the public service, to detail proper officers of the navy as superintendents of or instructors in such schools: *provided,* that if any such school shall be discontinued, or the good of the naval service shall require, such vessel shall be immediately restored to the Secretary of the Navy and the officers so detailed recalled: *and provided further,* that no person shall be sentenced to or received at such schools as a punishment or commutation of punishment for crime.

SECTION 4. That all laws and parts of laws in conflict herewith are hereby repealed.

STATE LEGISLATION.

General Laws of Massachusetts, 1921.

CHAPTER 15.

Department of Education.

Section 22. There shall be a board of commissioners of the Massachusetts Nautical School serving in the department and consisting of three citizens of the commonwealth, one of whom shall annually before July 1st be appointed by the governor, with the advice and consent of the council, for three years from said day.

Section 23. The commissioners shall serve without compensation, but shall be reimbursed for expenses actually incurred in the performance of their official duties.

CHAPTER 74.

Vocational Education.

Section 49. The board of commissioners of the Massachusetts Nautical School shall provide and maintain a nautical school for the instruction of students in the science and practice of navigation, accommodations therefor on board a proper vessel, books, stationery, apparatus and supplies needed in the work thereof, and appoint and remove necessary instructors and other employees, determine their compensation, fix the terms upon which students shall be received and instructed therein and discharged therefrom, make all regulations necessary for its management and provide from time to time for cruises in or from Boston Harbor.

Section 50. The board may receive from the federal government and use for the accommodation of the school, vessels detailed by the secretary of the Navy.

Section 51. In addition to the advances authorized by section twenty-three of

chapter twenty-nine, the state treasurer shall, upon requisition by the board to the state comptroller, make an advance for said cruises of not exceeding ten thousand dollars for six months to the commanding officer of the vessel detailed therefor, who shall give bond in the sum of ten thousand dollars, with sureties approved by the governor and council, for its proper disbursment. Said advance shall be accounted for by properly approved vouchers within thirty days after the termination of said cruises.

Section 53. The commissioner shall make an annual report relative to the Massachusetts Nautical School.

Public Document No. 42

MASS.
DOCS.
COLL.

The Commonwealth of Massachusetts

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

Massachusetts Nautical School

FOR THE

YEAR ENDING NOVEMBER 30, 1928

MASSACHUSETTS NAUTICAL SCHOOL
DEPARTMENT OF EDUCATION

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE
850 1-'29 Order 4297

The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION
PAYSON SMITH, *Commissioner of Education.*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL

14 BEACON STREET, BOSTON.

WILLIAM E. McKAY, *Chairman.*
CLARENCE E. PERKINS.
THEODORE L. STORER.

WILLIAM H. DIMICK, *Secretary.*

REPORT OF THE COMMISSIONERS

To the Commissioner of Education.

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1928, the thirty-seventh annual report.

SCHOOL CALENDAR, 1928

Spring entrance examinations:	March 22, 23, 24
Winter term ended:	April 5
Spring graduation:	April 5
Summer term commenced:	April 16
"Nantucket" sailed from Boston:	May 9
"Nantucket" arrived at Boston:	September 14
Autumn entrance examinations:	September 27, 28, 29
Autumn graduation:	October 4
Summer term ended:	October 4
Winter term commenced:	October 29

The Massachusetts Nautical School, a division of the Department of Education, provides a two years' course of instruction in seamanship, navigation, marine engineering and electricity to residents of the State. The age limit of applicants is from seventeen years to the twentieth birthday.

The school is conducted on board the Schoolship "Nantucket" which is berthed for the winter term at the North End Park, Boston. During the summer term of five months, practical instruction is given while cruising under sail and steam.

The "Nantucket" is a barkentine rigged iron sailing vessel of about 1,300 tons with steam power. The replacement value of the "Nantucket" as estimated by the Navy Department is $450,000.

The entrance examinations are held in the spring and autumn, usually the latter part of March and the latter part of September. Two hundred and twenty-nine applications were received for the entrance examinations held the past year. The seventy-two applicants standing highest were admitted to the school. The examination is *competitive,* those obtaining the highest marks being admitted to fill the existing vacancies.

The graduates of the school are qualified to obtain a United States Steamboat Inspector's certificate as third officer or third assistant en-

gineer. The demand for the graduates of the school is greatly in excess of the supply. A register of the graduates, showing the positions to which they have attained and the lines with which they are associated, is printed on the last pages of this report.

The school offers an opportunity for young men to enter upon a course of study under most favorable conditions. The outdoor life, regular routine, and sea experience make for good health and physical perfection; and promotion from third officer to first officer is practicable within a few years, and from first officer to captain in due course. On account of the limited number of trained and reliable officers for American ships, there is a real opportunity for rapid promotion.

Deposits and Tuition.

Applicants entering the school make a clothing fund deposit of $150, a graduation deposit of $50, and pay a tuition fee of $50. The graduation deposit is returned to the cadet upon graduation; if he fails to graduate for any reason, it is forfeited to the State. At the beginning of the second year there is required a clothing fund deposit of $50 and a tuition fee of $50.

Spanish-American War Tablet.

A bronze tablet in memory of the graduates and ex-cadets who served in the Spanish-American War was dedicated on board the "Nantucket" on May 7. The memorial was unveiled in the presence of the cadets and Spanish-War veterans, by Hon. Roger Wolcott, whose father was Governor of the Commonwealth during the Spanish War.

The inscription on the tablet is as follows:

MASSACHUSETTS NAUTICAL SCHOOL
WAR WITH SPAIN
April 25, 1898—August 11, 1898
Eighty Graduates and ex-Cadets
Served in the Forces of the United States
One Died at Sea
WILLIAM HENRY BOARDMAN
Midshipman—U. S. Navy
U. S. S. AMPHITRITE—August 10, 1898

The Graduates of the School.

In recent years, the personnel of the United States Coast Guard has experienced a large increase, and the school has been of material assistance to the government in supplying trained and competent officers for this service. About thirty graduates have accepted appointment in that branch of the government marine service.

The United States Steamboat Inspectors informed the Commissioners that one of the members of the class graduated in the autumn passed a perfect examination, receiving 100 per cent.

The following is a list of the forty-seven graduates of 1928, the names of their home towns, and of the vessels on which they are serving:

George H. Barnes, Jr.	Marshfield	S. S. San Bruno	United Fruit Co.
John T. Barrett, Jr.	Revere	S. S. Beaconoil	Beacon Oil Co.
Milton Breece	Gardner	Yacht Illyria	Cornelius Crane
Erle M. Brizard	Chicopee	S. S. Dixie	Southern Pacific Line
Frederick D. Browning	New Bedford	S. S. Norfolk	Coastwise Steamship Co.
Vitty C. Bulwich	Worcester	S. S. Ensley City	Isthmian Line
Elliott S. Bunker	South Lincoln	S. S. Minnesotan	American-Hawaiian Line
Edgar W. Clough	Campello	S. S. Corapeak	Webb Steamship Co.
Richard G. Copeland	Malden	S. S. Black Point	C. H. Sprague & Son
Frederick W. Craig	Salem	S. S. Norfolk	Coastwise Steamship Co.
W. Nathaniel Davis	Arlington	S. S. Liberty Land	American Export Line

Maurice F. Dinneen	Malden	S. S. Capillo	American Republics Line
Russell A. Dodge	Worcester	S. S. Ohioan	American-Hawaiian Line
Clark D. Doran	Fairhaven	S. S. Kansan	American-Hawaiian Line
Malcolm W. Downie	Mittineague	S. S. Paul Luckenbach	Luckenbach Line
Morgan J. Finucane	Fall River	S. S. Swift Wind	New England Oil Co.
John E. Forrest	North Easton		
William F. Goldsmith	Jamaica Plain	S. S. Yarmouth	Eastern Steamship Co.
Edward L. Greenleaf	Melrose	S. S. Beaconlight	Beacon Oil Co.
Mario L. Guidette	Springfield		
William H. Haywood	Boston	S. S. Algonquin	Clyde Line
Albert C. Hodson	Reading	S. S. Yarmouth	Eastern Steamship Co.
Lawrence N. Holmes	Malden	S. S. Coastwise	Coastwise Line
Irving O. Johnson	Lynn	S. S. Horace Luckenbach	Luckenbach Line
Joseph P. Kennelty	New Bedford	S. S. Panuco	Ward Line
Raymond C. Kidd	Melrose	S. Y. Carnegie	Carnegie Foundation
George C. Krook	Mittineague		
Ernest G. Leavitt	Mansfield	Special Employment	General Electric Co.
Chester B. Locklin	Abington	S. S. Steel Inventor	Isthmian Line
Charles E. Mabee	Abington	S. S. City of Chattanooga	Ocean S. S. Co.
William W. MacKenzie	West Roxbury	S. S. Nobles	American Export Line
William A. Musculus	Roslindale	S. S. Lake Gaither	New England, New York & Texas S. S. Corp
Gerard M. Normand	New Bedford	S. S. Kansan	American-Hawaiian Line
Clifton V. Parker	Chilmark	S. S. Virginian	American-Hawaiian Line
John H. Patch	Beverly	S. S. San Blas	United Fruit Co.
Muret C. Redman	Waban	S. S. Hawaiian	American-Hawaiian Line
Jacob Rudis	Worcester	S. S. San Blas	United Fruit Co.
James E. Saviski	Brockton	S. S. Swift Eagle	New England Oil Co.
Joseph J. Sawaska	West Lynn	S. S. Alexander	Coastwise S. S. Co.
Patrick J. Schofield	South Boston	S. S. Swiftsure	New England Oil Co.
Laurence T. Sidelinker	Wilmington	Yacht Illyria	Cornelius Crane
Harrison D. Small	Melrose		
Earl M. Swan	Beverly	S. S. San Bruno	United Fruit Co.
George R. Tabrah	East Dedham	S. S. Kansan	American-Hawaiian Line
Howard A. Thayer	Chelmsford	S. S. Hawaiian	American-Hawaiian Line
Charles A. Torkington	Lawrence	Special Employment	General Electric Co.
James A. Whetton	Needham Heights	S. S. Minnesotan	American-Hawaiian Line

The Practice Cruise.

The annual practice cruise included unusual ports of call. The itinerary covering 11,619 miles was as follows:

Provincetown	Bergen, Norway
Ponta Delgada, Azores	Edinburgh, Scotland
Plymouth, England	Hull, England
Belfast, Ireland	Gibraltar
Glasgow, Scotland	Madeira
Reikiavik, Iceland	St. Georges, Bermuda

Helpful Co-operation.

A number of organizations in the State have in recent years expressed their interest in the work of the school in some tangible form. The Rotary Club of Fall River has made it possible for a worthy young man of that city to take the course in the school.

The school has received, as the gift of Mr. Walter Gilman Page, a copy of a painting of Admiral Sir Isaac Coffin, Baronet, who at his own expense established the first nautical school on this continent at Nantucket in 1816. It is a copy of an original portrait in oil painted from life in 1808 by Sir William Beechey, R. A., and now hanging in the library of the Coffin School, Nantucket.

Repairs.

The Navy Department loans the "Nantucket" to the Commonwealth, and keeps the ship in repair; and in 1928 expended for this purpose and for equipment $27,000.

Wood-Whitman Memorial Prize.

The Wood-Whitman Memorial Prize was provided by the late Mr. Irving Wood, a Boston merchant, in memory of Capt. James Thompson Whitman of the Boston bark "Gertrude." The prize consists of the income on $5,000 and is awarded annually to the graduate of the year standing highest in seamanship and navigation. The fol-

lowing are the names of the winners of this prize: 1927, Allen P. Rounds of Billerica; 1928, Richard G. Copeland of Malden.

Commissioner Appointed.

On August 29, 1928, Capt. Theodore L. Storer of Cambridge was appointed a Commissioner to fill the vacancy caused by the death of Francis T. Bowles.

The following have served as Commissioners of the school:

Name	City	Appointed	
*Lieut. John C. Soley, U.S.N.	Boston	Aug. 7, 1891	Resigned, July 7, 1894.
Thomas B. Fitzpatrick	Newton	Oct. 19, 1892	Resigned, May, 1894.
*William H. Lincoln	Brookline	Oct. 5, 1893	Resigned, June 1, 1895.
*F. Stanhope Hill	Cambridge	June 2, 1894	Resigned, Aug. 4, 1894.
*Rear Adm. Joseph P. Fyffe	Boston	July 21, 1894	Resigned, Aug. 1894.
Capt. John C. Ross	Plymouth	Aug. 21, 1894	Term expired, June 30, 1895.
*Rear Adm. George E. Belknap, U.S.N.	Brookline	Nov. 3, 1894	Died, April 7, 1903.
Dr. Robert B. Dixon	Boston	June 13, 1895	Resigned, July 1, 1908.
Prof. Albert Bushnell Hart	Cambridge	July 1, 1895	Resigned, Nov. 25, 1899.
John Read	Cambridge	Dec. 7, 1899	Died, July 29, 1915.
*Rear Adm. N. M. Dyer, U.S.N.	Melrose	Apr. 22, 1903	Resigned, Feb. 2, 1906.
*Rear Adm. George F. F. Wilde	No. Easton	Feb. 7, 1906	Died, Dec. 2, 1911.
*Capt. William E. McKay	Milton	July 22, 1908	Present Commissioner
*Rear Admiral John F. Merry, U.S.N.	Somerville	Dec. 20, 1911	Died, May 29, 1916.
Clarence E. Perkins	Winthrop	Sept. 8, 1915	Present Commissioner
*Francis T. Bowles	Barnstable	July 5, 1916	Died, Aug. 3, 1927.
Theodore L. Storer	Cambridge	Aug. 29, 1928	Present Commissioner

*Chairman of the Board.

The School Record.

During the year there have been 187 students on the rolls of the school. They came from 82 cities and towns of the Commonwealth, as follows:

Abington	3	Lowell	4
Arlington	1	Lunenburg	1
Athol	2	Lynn	5
Attleboro	2	Malden	6
Beverly	4	Mansfield	2
Boston	16	Marblehead	1
Brockton	2	Marlboro	1
Brookline	4	Marshfield	1
Brookville	1	Medford	2
Cambridge	2	Medway	1
Campello	1	Melrose	4
Charles River	1	Merrimac	1
Chelmsford	1	Millbury	1
Chicopee	2	Milton	1
Chilmark	1	Mittineague	2
Concord	1	Needham	2
Dalton	1	New Bedford	4
Danvers	2	Newton	7
Dedham	2	Ocean Grove	1
Easton	1	Pepperell	1
Essex	1	Quincy	6
Everett	1	Reading	1
Fairhaven	1	Revere	1
Fall River	8	Raynham Centre	1
Framingham	1	Sagamore	2
Gardner	1	Salem	3
Hamilton	1	Scituate	1
Haverhill	1	Shrewsbury	3
Holyoke	10	Somerville	2
Lawrence	6	Springfield	3
Lenox Dale	1	Taunton	2
Leominster	1	Tewksbury	1
Lexington	1	Three Rivers	1
Lincoln	1	Waban	1

Walpole	3	Westwood	1
Waltham	3	Weymouth	1
Ware	1	Wilmington	2
Watertown	1	Winthrop	1
Waverly	1	Woburn	1
Westboro	1	Worcester	7
Westport	1		
West Springfield	2		187

Their previous education was as follows: High schools, 159; vocational schools, 11; academies, 7; technical schools, 5; colleges, 3; grammar schools, 2. The average age of the cadets at entrance was 18 years 8 months. The number of cadets enrolled in the school at present is 118.

Occupation of Parents or Guardians

Auditors	3	Lumber dealer	1
Bakers	2	Machinists	5
Bookkeeper	1	Managers	4
Brakeman, railroad	1	Mason	1
Bricklayer	1	Manufacturer	1
Builder and contractor	1	Master Mariner	1
Cabinet makers	2	Master Mechanics	2
Captain, Fire Department	1	Master Plumber	1
Carpenters	2	Mechanics	4
Carder	1	Mill worker	1
Celluloid worker	1	Moulders	2
Chauffeurs	3	Naval Officer	1
Chemist	1	Nurses	2
City Editor	1	Overseer	1
Claim agent	1	Painters	2
Clerks	2	Painter and decorator	1
Clothier	1	Pattern maker and carpenter	1
Coal dealer	1	Pharmacist	1
Compositor	1	Photographer	1
Contractor	1	Physician	1
Custodian of securities	1	Plate printer	1
Deliverer of bread	1	Police officers	2
Druggist	1	Postmaster	1
Electricians	2	Poultry raiser	1
Engineers	12	Principal, business college	1
Engrosser	1	Railroad dispatcher	1
Firemen	3	Railroad employee	2
Foremen	4	Real estate business	2
Garage proprietor	1	Reformatory employee	1
Gardeners	2	Retired	7
General Electric employee	1	Rope maker	1
Hand dresser	1	Salesmen	4
Harnessmaker	1	School teachers	2
Hotel proprietor	1	Secretaries	3
Housewives	17	Sergeant of police	1
Insurance business	1	Sexton	1
Internal Revenue Agent	1	Shipfitter	1
Janitors	2	Shoe workers	2
Jewelers	2	Silk twisters	1
Laundress	1	State employee	1
Lawyers	2	Station agent	1
Leather worker	2	Steamfitter	1
Letter carriers	2	Storekeeper	1
Line assigner	1	Supervisors	2
Loom fixers	2	Superintendents	6

Tender	1	Wire chief	1
Third hand	1	Wire drawer	1
Toolmakers	2	Woolsorter	1
Treasurers	2	Yard conductor	1
Trimmer	1		
United States marshal	1		
Watchman	1		187

Graduation Exercises

The sixty-seventh graduation exercises were held on Thursday, April 5, 1928, on board the "Nantucket" at the Navy Yard, Charlestown, at 11 A. M. The program was as follows:

Invocation: Rev. Ernest J. Dennen, D. D., Rector of the Old North Church, Salem Street, Boston.
Address by Presiding Officer: William E. McKay, Chairman of the Board.
Address: Dr. Samuel Wesley Stratton, President, Massachusetts Institute of Technology.
Address: Rear Admiral Philip Andrews, U. S. N., Commandant of the First Naval District.
Presentation of Alumni Association Prizes: Mr. Frank L. Downey, President of the Alumni Association.
Seamanship Class: Richard G. Copeland of Malden.
Engineering Class: Ernest G. Leavitt of Mansfield.
Presentation of Maritime Association Prizes: Mr. Charles F. Dutch, Member of the Governing Board of the Maritime Association.
Seamanship Class: Richard G. Copeland.
Engineering Class: Ernest G. Leavitt.
Representing the General Electric Co.: Mr. W. O. Bursch, Secretary, Lynn Advisory Committee on Engineering Training.
Presentation of Bibles: Archdeacon Ernest J. Dennen.
Presentation of Diplomas: Hon. Arthur W. Jones, Member of the House of Representatives.
Representing the Graduating Class: Richard G. Copeland.

The sixty-eighth graduation exercises were held on board the "Nantucket" at the North End Park on Thursday, October 4, 1928, at 11 A. M. The program was as follows:

Presiding Officer: William E. McKay, Chairman of the Board.
Prayer: Rev. James D. Cummins, Emmanuel Church, Boston.
Address: William E. McKay.
Address: Rear Admiral Reginald R. Belknap, U. S. N., of Newport, son of the late Rear Admiral George E. Belknap, U. S. N., who was Chairman of the Nautical School Commissioners from 1895 to 1903.
Presentation of Alumni Association Prizes by Mr. Frank L. Downey, President, Alumni Association:
Seamanship Class: Howard A. Thayer of Chelmsford.
Engineering Class: Charles R. Torkington of Lawrence.
Presentation of Maritime Association Prizes by Capt. Herman T. Parker, Assistant Port Captain, Eastern Steamship Company.
Seamanship Class: Howard A. Thayer of Chelmsford.
Engineering Class: Charles R. Torkington of Lawrence.
Presentation of Wood-Whitman Memorial Prize by Commissioner Theodore L. Storer: Richard G. Copeland of Malden.
Presentation of Bibles: Rev. James D. Cummins.
Presentation of Diplomas: Rear Admiral Belknap.

Lectures

Winter Term, 1927-1928

1927.		
November	16.	Mr. Hubert Perry, Community Singing and Solos.
November	30.	Capt. George E. Eaton, class of 1895, Lighthouses and Light Vessels.
December	7.	Dr. Charles E. Park, Discovery of America.
December	14.	Prof. Harlan T. Stetson, Stars and the Sea.
1928.		
January	4.	Capt. Armistead Rust, U.S.N., Jeannette Arctic Expedition.
January	11.	John E. Macy, class of 1896, Elements of Admiralty Law.
January	18.	Robert B. Lea, Gyroscope Compass.
January	25.	Rear Admiral R. R. Belknap, U.S.N., Experiences in the North Sea during the Great War.
February	1.	Lieut. Comdr. George C. Manning, U.S.N., Ships Stability.
February	8.	James Otis Porter, Salvage and Insurance.

Officers and Instructors

The present officers and instructors of the school are as follows:

Armistead Rust, Captain U. S. N., Retired, Superintendent of Schoolship.
Norman E. Merrill (graduate M. N. S.), Schoolship Executive Officer.
William W. Storey (graduate M. N. S.), Schoolship Navigator.
Alton E. Borden (graduate M. N. S.), Schoolship Watch Officer.
Nicolai S. Sivertsen, Schoolship Watch Officer.
Ervin L. Kelley, Lieutenant, U. S. N. R. (graduate M. N. S.), Chief Marine Engineer.
Arthur L. Wheeler, Schoolship Instructor in Mathematics.
F. Dennette Adams, M. D., Schoolship Surgeon.
Charles Parker, Schoolship Paymaster.

Detailed Report on the Practice Cruise.

The "Nantucket" sailed from Boston on May 9, and arrived at Provincetown on the same day. The ship sailed from Provincetown at 2 P. M. on May 12, and arrived at Ponta Delgada, Azores, at 6.30 A. M., on May 24. The passage to the Azores was attended with much southwesterly weather with fresh breezes, rain squalls, and a rough sea most of the time.

The schoolship left Ponta Delgada at 10.40 A. M., on May 28, and arrived at Plymouth, England, at 6 A. M., on June 4. The U. S. S. Detroit flying the flag of Vice Admiral T. H. Burrage, U. S.N., was in port upon the arrival of the "Nantucket" in Plymouth.

The first part of the passage between Ponta Delgada and Plymouth was pleasant, but the last part was rough with fresh head wind and sea which reduced the speed from nine to three knots.

Sailed from Plymouth at 9 A. M., June 8, and arrived at Belfast, Ireland, at 4 P. M., June 10. Head wind and sea was encountered until rounding the Lizard Head when fore and aft sail were set until passing Wolf Rock Light, when the course was changed and square sails were set and carried up the Irish Sea. At 2 P. M., picked up the Pilot and proceeded into the harbor. The ship passed Carrickfergus, off which place Capt. John Paul Jones with the "Ranger" captured the British ship "Drake."

Arrangements were made to take the cadets on motor trips in the country.

Left Belfast, Ireland, at 6 A. M., June 15, and arrived at Glasgow, Scotland, at 7 P. M., on the same day.

The Superintendent visited the Navigation School at Glasgow maintained in connection with the Royal Technical College. The school has

a most adequate equipment with modern apparatus for the instruction of its students, who have the use of large classrooms and lecture halls in the Royal College.

The departure from Glasgow was made at noon, June 21, and at 8.40 A. M., June 26, the ship arrived at Reikiavik, Iceland. On June 22, the wind increased in force to half a gale with a heavy sea and then hauled to the west N. N. W., bringing the wind and sea nearly ahead, but the wind moderated to fresh to strong breeze until the morning of the 24th, after which time the wind and sea went down and good progress was made. While in the port of Reikiavik, Iceland, the weather was mild and pleasant.

The "Nantucket" sailed from Reikiavik at 9 A. M., June 30, and arrived at Bergen, Norway, at 9.30 A. M., July 5, where were found two German naval vessels, the cruiser "Nymphe" and the battleship "Elsass."

An interesting and instructive Exposition was in progress at Bergen to which the cadets had access. The passage from Iceland to Bergen was pleasant with very little rain.

At this port, Captain Thomas Drake of the Schooner "Pilgrim" addressed the cadets on his experiences in sailing the "Pilgrim," single handed, from Seattle, Washington, via the Panama Canal and Charleston, South Carolina, to Bergen. The schooner is 35 feet long, 11 feet beam, and draws 3½ feet, having been built by Captain Drake.

Sailed from Bergen, Norway, at 11.40 A. M., July 12, and arrived at Edinburgh, (Leith Roads), at 4.30 A. M., July 15. Pleasant weather was experienced at Edinburgh and the cadets had excellent opportunities to visit the places of historical interest.

Leaving Leith Roads at 6 P. M., July 19, the ship was berthed at the Sir William Wright Dock, Hull, at 9.20 A. M., July 21. As during the previous visit of the "Nantucket" to Hull, in July, 1924, the city officials and people generally were most hospitable and cordial in the reception given to the ship.

The "Nantucket" sailed from Hull at 2.50 P. M., July 28, and arrived at Gibraltar at 12.40 P. M., August 5. The pasage to Gibraltar was uneventful, high winds in the English Channel, but the sea was smooth across the Bay of Biscay with light variable breezes until 1 A. M., August 3, when the wind came out fair moderate to fresh from N. N. W. until 5 A. M., August 5.

Sailed from Gibraltar at 10.20 A. M., August 10, and anchored at Funchal, Madeira, at 7.50 P. M., August 13, after a pleasant voyage.

At 10.10 A. M., on August 18, left Funchal, Madeira, and dropped anchor at St. Georges, Bermuda, at 11.25 A. M., September 5. Pleasant weather was experienced during the whole passage except during the last few days when the weather was hot. The weather at Bermuda was very hot nothwithstanding there was a gentle breeze from the east all the while. Advantage was taken of this wind to give the cadets a great deal of practice in boats under sail.

The "Nantucket" left Bermuda on September 9 and arrived at Boston on September 14.

Distances made good:

Under steam	3892 miles
Under steam and sail	5563 miles
Under sail	2427 miles
Under tow and Navy Yard tug	64 miles
Total	11,946 miles

Coal Report

On hand and received	912 tons
Expended	858 tons
On hand September 16, 1928	54 tons

ITEMS

Moving ship and banking fires	595 tons
Auxiliary machinery and generators	222 tons
Distilling water	34 tons
Galley	7 tons
Total	858 tons

CADET OFFICERS OF THE MASSACHUSETTS NAUTICAL SCHOOL.

SUMMER TERM, 1928.

Howard A. Thayer, *Cadet Master.*

Navigation.

Muret C. Redman . . . . . *Cadet First Officer.*
William H. Haywood . . . . . *Cadet Second Officer.*
William F. Goldsmith . . . . . *Cadet Third Officer.*

Engineering.

Albert C. Hodson . . . *Cadet Engineer.*
Charles R. Torkington . . . *Cadet First Assistant Engineer.*
Mario L. Guidette . . . *Cadet Second Assistant Engineer.*

Petty Officers.
(Deck).
Special Ratings.

Clark D. Doran, *Chief Quartermaster.*
Raymond C. Kidd, *Chief Gunner's Mate.*
Edward L. Greenleaf, *Chief Carpenter's Mate.*
John H. Patch, *Quartermaster, 1st class.*
Morgan J. Finucane, *Quartermaster, 1st class.*
Laurence N. Holmes, *Quartermaster, 1st class.*

(Engineering).

Malcolm W. Downie, Cadet Electrician.

WINTER TERM, 1928-29.

Louis A. Woodland, Jr., *Cadet Master.*

Navigation.

Samuel E. Johnson . . . . . *Cadet First Officer.*
Homer R. Hotin . . . . . *Cadet Second Officer.*
William A. Leary . . . . . *Cadet Third Officer.*

Engineering.

Eric Ernst . . . . . *Cadet Engineer.*
William J. Otto, Jr. . . . . *Cadet First Assistant Engineer.*
James A. Frew . . . . . *Cadet Second Assistant Engineer.*

Petty Officers.

Captains of Tops.

Frank B. Tymoczko	Henry W. Daniels
John J. O'Connor	Earl Colclough
Joseph W. Balevic	William G. Rosso
Weston Healy	Myron W. Chamberlin

Hugh O. Magarian, *Chief Quartermaster.*
Roger K. Smith, *Chief Carpenter's Mate.*
Allen M. Moyer, *Chief Gunner's Mate.*

Engineering.

John P. Haberlin, *Cadet Machinist.*
Donald P. Dana, *Cadet Electrician.*

Cadets Admitted, Graduated and Honorably Discharged, from 1893 to 1928 inclusive.

	Admitted.	Graduated.			Honorably discharged.	Withdrawn, dismissed, dropped.	Number connected with the school.
		Seamanship Class.	Engineer Class.	Totals.			
1893	141	–	–	–	29	24	138
1894	63	–	–	–	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	133
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
Totals	2,609	692	630	1,322	700	470	–

Membership of the School.

Graduating Class, April, 1928.

Seamanship Division.

***Copeland, Richard G.**	Malden
Breece, Milton	Gardner
Parker, Clifton V.	Chilmark
Sidelinker, Laurence T.	North Wilmington
MacKenzie, William W.	West Roxbury
Dodge, Russell A.	Worcester
Mabee, Charles E.	Abington
Davis, W. Nathaniel	Arlington

Engineering Division.

Leavitt, Ernest G.	Mansfield
Whetton, James A.	Needham Heights
Saviski, James E.	Brockton
Locklin, Chester B.	Abington
Craig, Frederick W.	Salem
Browning, Frederick D.	New Bedford
Johnson, Irving O.	Lynn
Bunker, Elliott S.	South Lincoln
Kennelty, Joseph P.	New Bedford
Forrest, John E.	North Easton
Schofield, Patrick J.	South Boston

(*Received 85 per cent of the academic multiple and entitled to wear gold star on coat collar.)

Graduating Class, October, 1928.

Seamanship Division.

***Thayer, Howard A.**	Chelmsford
Normand, Gerard M.	New Bedford
Redman, Muret C.	Waban
Tabrah, George R.	East Dedham
Goldsmith, William F.	Jamaica Plain
Haywood, William H.	Boston
Musculus, William A.	Roslindale
Kidd, Raymond C.	Melrose
Greenleaf, Edward L.	Melrose
Dinneen, Maurice F.	Malden
Holmes, Laurence N.	Malden
Patch, John H.	Beverly
Finucane, Morgan J.	Fall River
Swan, Earl M.	Beverly
Bulwich, Vitty C.	Worcester
Doran Clark, D.	Fairhaven
Barrett, John T., Jr.	Revere
Small, Harrison D.	Melrose
Sawaska, Joseph J.	West Lynn

Engineering Division.

Torkington, Charles R.	Lawrence
Hodson, Albert C.	Reading
Guidette, Mario L.	Springfield
Krook, George C.	Mittineague
Rudis, Jacob	Worcester
Downie, Malcolm W.	Mittineague
Clough, Edgar W.	Campello
Brizard, Erle M.	Chicopee
Barnes, George H., Jr.	Marshfield

Class to Graduate April, 1929.

Seamanship Division.

***Woodland, Louis A., Jr.**	Fall River
Johnson, Samuel E.	East Milton
O'Connor, John J.	Wollaston
Tymoczko, Frank B.	Worcester
Leary, William A.	Fall River
Magarian, Hugh O.	Lynn
Smith, Roger K.	Brookline
Moyer, Allen M.	Allston
Hotin, Holmer R.	Holyoke
Daniels, Henry W.	West Medway
Balevic, Joseph W.	Lowell
Healy, Weston	Fall River

Engineering Division.

Frew, James A.	Quincy
Otto, William J., Jr.	Roslindale
Ernst, Eric	Holyoke
Haberlin, John P.	East Boston
Dana, Donald P.	Boston
Fay, John L.	Dedham
Hill, James H.	Wollaston
Colby, Leroy S., Jr.	Lawrence
Seaver, Joseph H., Jr.	Newton Lower Falls
Buckley, Walter J.	Cambridge

(*Received 85 per cent of the academic multiple and entitled to wear gold star on coat collar.)

Hannigan, Francis M.	Newton Centre
Brown, Austin L.	Millbury
Christensen, Ove	Waltham
Peterson, Charles H.	Worcester
Pearce, Paul R.	Holyoke
MacCurrach, Peter, Jr.	Hamilton

CLASS TO GRADUATE OCTOBER, 1929.

Seamanship Division.

***Chamberlin, Myron W.**	Three Rivers
Cushman, Austin D., Jr.	Everett
Colclough, Earl	Malden
Rosso, William G.	Lynn
Merry, Charles G.	West Somerville
Chapman, George H., Jr.	Lowell
Dunham, Herbert W.	Danvers
Polley, Robert E.	Needham Heights
Knight, John B., Jr.	Chicopee Falls
Remmes, Joseph T.	Lawrence
MacKenzie, Roderick H.	Roxbury

Engineering Division.

***Hoyle, T. Gerard**	Quincy
Lambine, Oscar M.	East Walpole
Stone, Walter C.	Scituate
Cox, C. David	Lunenburg
Endicott, Gilbert F.	Shrewsbury
Duke, George M.	Shrewsbury
Kinsman, George H.	Jamaica Plain
Redmayne, Robert G.	Westwood
Gilman, William R.	East Pepperell
Carnes, Matthew J.	Malden
McIntosh, Robert E.	Haverhill
Corbett, Warren S., Jr.	West Roxbury
Loring, A. Franklin	Concord Junction

CLASS TO GRADUATE APRIL, 1930.

Neilson, Larz D.	Wilmington
Conniff, James F.	Newtonville
Wood, Arthur G.	Brookline
Smith, Robert B.	Malden
Sherman, George W.	Raynham Centre
Woodward, James E.	Auburndale
Entwistle, George B.	New Bedford
Roscoe, Kenneth S.	Charles River
Soboczinski, Zygmund P.	Salem
Dilling, James C., Jr.	Winthrop
Ellis, Alison M.	Attleboro
Nay, Randall M.	West Roxbury
Dickinson, Russell	Taunton
Harding, John L.	Springfield
Meisner, W. Bradford	Wollaston
Skuse, Paul H.	Watertown
Noyes, Frederick R.	Lexington
Casey, Maurice P.	Fall River
Whittier, C. Reginald	Danvers
Williams, Ernest	Holyoke
Bergin, J. D. Clyde	West Springfield
Sheehan, Daniel A.	Lawrence

(*Received 85 per cent of the academic multiple and entitled to wear gold star on coat collar.)

Feeney, John H.	Lenox Dale
Winslow, Charles T.	Fall River
Cutter, Ralph F.	Athol
Healy, Melvin F.	Fall River
Hamill, Malcolm H.	East Lynn
Knapton, Alfred E.	Lawrence

CLASS TO GRADUATE OCTOBER, 1930.
(Alphabetically arranged.)

Alger, Stanley D.	Atlantic
Bellhouse, Alan R.	Medford
Bellucci, Silvio	Mansfield
Best, Harry J., Jr.	Brookville
Blackwood, Harry P., Jr.	Brookline
Brouillet, Arthur L.	Holyoke
Brown, William E., Jr.	Woburn
Buliung, Paul W.	Framingham
Clogston, Carleton H.	Lowell
Crocker, Carlton W., Jr.	East Boston
Davies, George N.	Tewksbury
Davis, Charles A., Jr.	North Abington
Deering, Daniel T.	Beverly
Donlevy, William F.	Attleboro
Garner, Wilfred J., Jr.	Holyoke
Gifford, Charles H.	South Westport
Harrington, James G.	Waverly
Heath, Howard K.	Lawrence
Ingram, Joseph P.	Leominster
Kacocha, Charles A.	Ware
Koskela, Aarne E.	Sagamore
Lunt, Austin W.	Athol
MacLean, L. Lloyd	Fall River
Mailhiot, Elmer E., Jr.	Melrose
Maternowski, Peter L.	Holyoke
Maziarz, Peter R.	Holyoke
Morgan, Everett L.	Brockton
Pearce, Arthur G., Jr.	Ocean Grove
Ross, Roy I.	Cambridge
Shepherd, James W.	Lowell
Sholes, John E.	Newtonville
Small, Donald R.	Sagamore
Smith, Harry C.	Holyoke
Tirrell, Prince H., Jr.	South Weymouth
Wallis, Hugh F.	Beverly
Whalley, Robert E.	Salem
Whitehead, Gilbert J.	East Walpole

REGISTER OF GRADUATES.

OFFICERS IN THE MERCHANT MARINE

[*Enrolled in the United States Naval Reserve during the World War.]

Year.	NAME.	Residence.	Position.	Vessel or Service.
1895	Clarence E. Perkins	Winthrop	Commissioner	Massachusetts Nautical School.
1915	*Charles H. Hurley, Jr.	Gardner	President	Bay State Shipping Co.
1907	Paul R. Smith	Concord	Operating manager	Roosevelt Steamship Co.
1903	Nicholas J. Kane	Whitman	Superintendent	American-Hawaiian Line.
1900	*Hollis M. Cornwall	Melrose	Marine superintendent	Merchants and Miners Transportation Co.

Officers in the Merchant Marine—*Continued*

Year.	Name.	Residence.	Position.	Vessel or Service.
1909	Robert S. Sparrow	Eastham	Marine superintendent	Barber Lines.
1909	*John J. Coholan	So. Boston	Marine superintendent	Galveston, Tex.
1911	Norris T. Ela	Douglas	Marine superintendent	Baltimore, Md.
1912	*John M. Marks	Gloucester	Superintendent	Yonkers Ferry.
1899	Edward G. Smith	Boston	Port captain	Freeport Sulphur Co.
1901	Theodore H. Bicknell	Melrose	Port captain	Union Sulphur Co.
1905	Walter L. Smith	Ashburnham	Port Captain	U. S. Shipping Board, Baltimore, Md.
1906	*William H. Lee	Malden	Port captain	Roosevelt Steamship Co.
1902	Herman T. Parker	Rockport	Assistant port captain	Eastern Steamship Lines.
1922	Edward C. Beatson	Springfield	Assistant port captain	Williams Line, Philadelphia.
1905	Charles F. Tarr	Taunton	Port engineer	U. S. Shipping Board, Philadelphia.
1923	Dana V. Phillips	Newton	Assistant agent	Barber-African Line.
1911	*William M. Gorham	Winthrop	Manager	Kauai Marine Railway Co., Kauai, Hawaii.
1920	J. Francis Devlin, Jr.	Salem	Manager	F. Jarka & Co., Boston.
1912	*Herbert A. Burns	New Bedford	Vice-president	F. Jarka & Co., New York.
1897	*Frederick W. Jones	Winchester	– –	U. S. Shipping Board, Washington, D. C.
1917	Donald MacWhinnie	New Bedford	– –	U. S. Shipping Board, New York.
1919	Richard R. McNulty	Gloucester	Research department	U. S. Shipping Board, Washington, D. C.
1895	Charles H. Lincoln	Gloucester	Marine surveyor and inspector	Detroit.
1909	*Carroll E. Higgins	Somerville	Marine surveyor	Insurance Company of North America, New York.
1917	Herbert W. Susmann	Dorchester	Marine surveyor	Arthur Lee and Co.
1915	Edward R. Rhodes	Lowell	Surveyor	American Bureau of Shipping, Aruba, D. W. I.
1924	Robert S. Gale	Watertown	Surveyor and appraiser	Boston, Mass.
1918	Raymond E. Saunders	Somerville	Superintendent	Florida Railroad and Navigation Corp.
1918	Leonard N. Caswell	Fall River	Technical adviser	American Consul, London, England.
1919	Edmond F. Bemis	Swampscott	Commercial agent	Dept. of Commerce, Boston.
1901	Sidney A. Maglathlin	W. Bridgewater	Supervising engineer	Boston
1919	Joseph W. Gosselin	Lynn	Traveling agent	Victory Terminal Warehouse.
1923	William F. Neville	New Bedford	Investigator	Bureau of Fisheries.
1918	William H. Fitzgerald	Revere	Assistant pier manager	Brooklyn, N. Y.
1905	Frederick S. Walker	Reading	U. S. Steamboat inspector	Providence, R. I.
1900	James F. Rawdon	Worcester	U. S. Steamboat inspector	Providence, R. I.
1911	*Charles F. Fornason	Marblehead	U. S. Steamboat inspector	Albany, N. Y.
1902	*Arthur T. Luther	Swansea	Pilot	Panama Canal.
1902	Osborn E. McKay	Sagamore	Pilot	Panama Canal.
1907	*Elmer B. Small	Reading	Pilot	Panama Canal.
1913	*Everett T. Swinson	E. Gloucester	Pilot	Panama Canal.
1916	*Byron H. Paine	New Bedford	Pilot	Panama Canal.
1917	David M. McLaren	Dedham	Pilot	Panama Canal.
1894	James E. Reardon	Roxbury	Captain	– –
1894	Henry G. Carpenter	Roxbury	Captain	"Canfield."
1894	Albert L. Warner	Wollaston	Captain	– –
1895	Walter J. Healey	Worcester	Captain	"Walter Jennings."
1895	George L. P. Covell	Roxbury	Captain	"Henry S. Groves."
1895	Horace W. Folger	Wilmington	Captain	Boston Pilot Boat Service.
1896	*William N. P. Baker	Dorchester	Captain	"Oakwood."
1896	Alvin W. Haynes	Somerville	Captain	"Cristobal."
1896	George R. Lauriat	Medford	Captain	– –
1897	H. W. G. Atkins	Reading	Captain	– –
1897	*Herbert P. Smith	Nantucket	Captain	"Carplaka."
1897	Mina Dailey	Rockport	Captain	"Harwood."
1898	*Louis E. Congdon	Boston	Captain	"Swift Eagle."
1898	*Carl E. A. Anderson	Roslindale	Captain	"Missourian."
1898	Eldon G. Freeman	Whitman	Captain	Chief Pilot, San Francisco, California.
1898	*Charles H. Kilmer	Somerville	Captain	"District of Columbia."
1899	George F. Waite	Winthrop	Captain	U. S. Shipping Board.
1899	Walter S. Lynch	Chelsea	Captain	– –
1900	*James S. Howes	Woods Hole	Captain	Yacht "Seaborn."
1900	*E. Newton Parker	Greenfield	Captain	– –
1900	William B. Knight	Bellingham	Captain	"Catherine D."
1900	Alfred M. Cummings	Worcester	Captain	"Lancaster."
1900	I. Clarence Bailey	Kingston	Captain	Boston Pilot Boat Service.
1901	Charles D. Harrington	Boston	Captain	"Joseph R. Parrott."
1901	Robert W. Tucker	Kendal Green	Captain	"Hannawa."

OFFICERS IN THE MERCHANT MARINE—*Continued*

Year.	Name.	Residence.	Position.	Vessel or Service.
1902	*A. Russell Cushing	Allston	Captain	– –
1902	*Edwin J. Madden	Everett	Captain	"Cody."
1902	*Fred C. Seibert	Greenfield	Captain	"Seekonk."
1903	Benjamin O'Connell	Peabody	Captain	"Wheeling Mold."
1903	*Harry M. Bostwick	Northbridge	Captain	"Suscolanco."
1904	*Edward C. Roberts	N. Beverly	Captain	"Carillo."
1905	*Harold H. Gridley	Dorchester	Captain	"Darden."
1905	*James A. Crocker	Nahant	Captain	"J. R. Gordon."
1906	*George C. Bosson	Reading	Captain	– –
1907	Frazier L. Sears	E. Dennis	Captain	"Shreveport."
1907	*Frederick L. Gainard	Chelsea	Captain	Atlantic Coast Pilot.
1908	*Eugene P. Shevlin	East Boston	Captain	"Ala."
1908	Chester B. Mellen	Quincy	Captain	– –
1908	*Edward S. Ells, Jr.	Haverhill	Captain	– –
1909	*Ernest F. Robinson	East Boston	Captain	Yacht "Chelsea."
1909	Harold C. Cooper	Worcester	Captain	"Polarine."
1909	*Eric E. Winquist	Mattapan	Captain	Pilot, New York.
1910	*Chester E. Morris	Springfield	Captain	– –
1911	*Wesley F. Besse	Somerville	Captain	"Christy Payne."
1911	*Harold S. Dexter	Mattapoisett	Captain	– –
1911	*Henry O. K. Hanson	Neponset	Captain	– –
1911	*Raymond C. Vose	Cambridge	Captain	"West Tacook."
1911	*Eugene W. Miller	East Saugus	Captain	"Western Glen."
1912	*Clarence L. Howard	Wellesley	Captain	– –
1912	*Albert H. Acorn, Jr.	Boston	Captain	Yacht "Bonita III."
1912	Russell A. Eastman	Mattapoisett	Captain	– –
1913	Philip J. Fanning	Needham	Captain	– –
1913	*Oliver P. Shattuck	West Acton	Captain	– –
1913	*John A. Maddock	Newburyport	Captain	– –
1914	John L. Kirchner	Hinsdale	Captain	New York, New Haven & Hartford Railroad tugs.
1914	*Gerard R. Crosby	Orleans	Captain	"Alaskan."
1914	David H. Swinson	Gloucester	Captain	"Lake Flattery."
1914	Nelson T. Nutter	Newburyport	Captain	"Chamblee."
1914	Edward F. Murphy, Jr.	Fall River	Captain	"Florence Luckenbach."
1915	Albert V. Jones	Fall River	Captain	"Pinthis."
1915	Charles N. Bamforth	Swampscott	Captain	"Pennsylvanian."
1915	*Herman S. Mayo	Provincetown	Captain	"Schenectady."
1915	*Leland M. Marshall	Allston	Captain	"Advance."
1915	Harold F. Craven	Lawrence	Captain	"Gulfland."
1915	*Charles E. Griffith	Cambridge	Captain	"Black Point."
1916	*William E. Lord	Springfield	Captain	"Major Wheeler."
1916	John A. Rylander	Springfield	Captain	"Mobile City."
1916	*John T. Crowell, Jr.	Gloucester	Captain	"Radio."
1917	Sydney L. MacLaughlin	Lexington	Captain	Yacht "Amida."
1917	Arthur S. Phelan	Lynn	Captain	"Tuscaloosa City."
1918	Leonard C. Walen	Gloucester	Captain	"Westport."
1918	Wilbur W. Woods	Provincetown	Captain	"Culberson."
1919	Harold T. Longmore	Stoneham	Captain	"Munleon."
1919	Francis J. Harrington	Revere	Captain	– –
1920	Francis X. Landrey	Roslindale	Captain	"Sujerseyco."
1921	Lawrence T. Sullivan	East Boston	Captain	"John Tracy."
1899	George W. Stetson	Somerville	First officer	"Sujerseyco."
1900	Clayton G. Parsons	Salem	First officer	"West Cape."
1902	*Arthur P. Jensen	Provincetown	First officer	– –
1906	*Lewis B. Butler	Worcester	First officer	– –
1907	Philip B. March	Brookline	First officer	"Ameland."
1912	*Ralph E. Merithew	Haverhill	First officer	– –
1912	*Joseph M. Daniel	Osterville	First officer	– –
1913	James A. MacCabe	Osterville	First officer	– –
1913	Wilfred H. Senior	Dorchester	First officer	"Turmore."
1913	*Philip H. Waldron	East Milton	First officer	"Coahoma County."
1913	*Frederick L. Howland	So. Dartmouth	First officer	"Western Ally."
1913	*Ralph W. Dearborn	Mansfield	First officer	"Kansan."
1913	*Waldon A. McIntire	E. Gloucester	First officer	"Martha Washington."
1914	*Samuel J. Lee	Malden	First officer	"Wilscox"
1914	*Samuel A. Gates	Malden	First officer	"Oregonian."
1915	*Arthur A. Hovgaard	Brookline	First officer	"West Raritans."
1915	Ronald L. Ford	Lawrence	First officer	"Yukon."
1915	*William C. Davenport	New Bedford	First officer	"Minnekahda."
1916	*Peter J. Jakmauh	South Boston	First officer	"West Inskip."
1916	Harold R. Congdon	Somerville	First officer	"Amolco."
1916	Paul H. Browne	West Roxbury	First officer	"Atlas."
1916	*Edwin T. Fletcher	Springfield	First officer	"Wheaton."
1917	Stanley F. Roberts	Springfield	First officer	– –
1917	A. Henry Rowe	Roslindale	First officer	"Gulfcrest."
1917	Ivan Freeman	East Orleans	First officer	"Ossaban."
1918	Hartley Hoffses	Quincy	First officer	"Hickman."
1918	Max Distelman	Newburyport	First officer	"Lackawanna Bridge."
1918	George R. Stockbridge	Wellesley	First officer	"Panoil."
1918	G. Minard Cunningham	Lawrence	First officer	– –
1918	Jacob Popkin	Malden	First officer	"Yuka."

OFFICERS IN THE MERCHANT MARINE—*Continued*

Year.	Name.	Residence.	Position.	Vessel or Service.
1918	Raphael W. Hill	Provincetown	First officer	"Agwihavre."
1919	John W. Donahoe	Dorchester	First officer	"Transportation."
1919	Ernest B. Waters	Nahant	First officer	"La Perla."
1920	Erwin F. Colburn	Somerville	First officer	"Pastores."
1920	Francis E. Donnelly	Roslindale	First officer	"Oakey L. Alexander."
1920	*David F. Atwood	West Falmouth	First officer	"Tucson."
1920	Mortimer K. O'Sullivan	West Medford	First officer	"Lake Benbow."
1920	George P. Lord	Salem	First officer	Yacht "Amida."
1921	George J. Lavin	Melrose	First officer	"Montanan."
1921	Charles G. Foster	Dennis	First officer	"Columbian."
1921	George A. Perkins	No. Carver	First officer	"M. & J. Tracy."
1921	J. Blaisdell Wells	Medford	First officer	"Texan."
1922	Scranton H. Redfield	Lynn	First officer	"President Taft."
1922	Arthur O. Brady	Rockland	First officer	"Minnesotan."
1922	Robert M. Pierce	Rockport	First officer	"Virginian."
1922	Malcolm O. Sillars	Danvers	First officer	"Pioneer."
1922	Webster G. Farrell	Dorchester	First officer	"Limon."
1922	Kenneth C. Mayo	Provincetown	First officer	"Radio."
1922	Carroll P. Burgess	Plymouth	First officer	"Swiftsure."
1922	Vincent F. J. Hancock	Fall River	First officer	"Frank A. Morey."
1923	Roy W. Chamberlain	Lynn	First officer	"President Adams."
1923	Paul R. Jones	Gloucester	First officer	"Ohioan."
1923	John E. Wade	Amesbury	First officer	"West Selene."
1923	Duncan S. Baker	Manchester	First officer	– –
1924	Joseph H. Masse	Everett	First officer	"Georgian."
1925	Douglas MacMaster	Cambridge	First officer	"T. A. D. Jones."
1894	Alfred J. O'Leary	Worcester	Second officer	"Adacia."
1902	*George Castle	Lynn	Second officer	"Lake Fanning."
1904	Leslie F. Holmes	Whitman	Second officer	– –
1904	*Andrew J. Iverson	Beverly	Second officer	"Newton."
1904	*Charles H. Stoddard	Brookline	Second officer	– –
1906	John Ruyter	Rochester	Second officer	"Lake Ellio."
1907	Herbert Garity	Boston	Second officer	"Dorothy."
1910	Franklin K. Tyler	Beachmont	Second officer	"Saramacca."
1911	Roy G. Whittemore	Billerica	Second officer	"Hawaiian."
1912	Robert M. Gray	Melrose	Second officer	"Beacon Light."
1912	Harold L. Winslow	Canton	Second officer	"Leviathan."
1913	John W. Crocker	Nahant	Second officer	"Western Spriit."
1914	*Joseph L. Turner	Amherst	Second officer	– –
1914	Ten Eyck H. Reed	S. Framingham	Second officer	"Panama."
1914	*William H. Fogarty	Dorchester	Second officer	"Afoundria."
1914	Laurence L. Horton	Eastham	Second officer	"Prince Frederick."
1915	George T. Horan	Allston	Second officer	"Steel Traveler."
1915	*Russell C. Damon	Hingham	Second officer	"Lake Ellsbury."
1915	*Curtis C. Fales	Westboro	Second officer	"Malabar."
1915	*Charles P. Jacobson	Everett	Second officer	"Oskawa."
1916	*Frank M. Perrin	Worcester	Second officer	– –
1916	Clifford E. Stanley	Salem	Second officer	– –
1916	Fred E. Wilcox	Indian Orchard	Second officer	– –
1917	*Percie A. Crosby	Everett	Second officer	"Chester Valley."
1917	*Earl S. Francis	Athol	Second officer	– –
1917	*William M. Preston	Beverly	Second officer	– –
1917	Charles F. Huffman	W. Somerville	Second officer	"West Hambrie."
1917	Luther C. Kingsbury	Wellesley	Second officer	"Evangeline."
1917	*Frank M. Moore	Forest Hills	Second officer	Ferry Service, Boston.
1917	*Bradford S. Wilson	Brookline	Second officer	– –
1918	James R. Moore	Lexington	Second officer	"Lake Sunapee."
1918	James H. Lowry	Canton	Second officer	"Saccarappa."
1918	James E. Fraser	Boston	Second officer	MS. "Rayville."
1918	Edgar G. Glines	Beverly	Second officer	"Watertown."
1918	Gerald K. Sanborn	Lawrence	Second officer	– –
1919	Robert S. O'Brion	Malden	Second officer	– –
1919	Sherman W. Reed	Lexington	Second officer	"Leviathan."
1919	Charles F. Bossom	Medford	Second officer	"Kerhonkson."
1919	Harry C. Lord	Quincy	Second officer	"Halo."
1919	Richard F. Nickerson	So. Duxbury	Second officer	"Henry Groves."
1919	John J. Mahoney	Revere	Second officer	– –
1919	Charles E. Gilman	Somerville	Second officer	"Everett."
1919	Alfred A. Needham	Manchester	Second officer	"Loyal Legion."
1920	*Oswald J. Griffin	Fall River	Second officer	"Imlay."
1920	*Fred C. B. Steinmetz	Springfield	Second officer	"Steel Seafarer."
1920	*Laurence R. Jacques	Springfield	Second officer	"Atlantic City."
1921	John A. Robertson	Boston	Second officer	"Georgian."
1921	Edward F. Sise	West Medford	Second officer	"Santa Teresa."
1921	George Barkley	Springfield	Second officer	"K. R. Kingsbury."
1921	Alphonsus J. Godfrey	Roxbury	Second officer	"F. J. Kellogg"
1922	William C. Mahoney	Somerville	Second officer	"Bayway."
1922	Everett A. Rhodes	Worcester	Second officer	"Southern Cross."
1923	Gerald P. Coleman	Melrose	Second officer	"West Honaker."
1923	Leman N. Wright	No. Abington	Second officer	"Steel Engineer."
1923	John E. Handran	Rockport	Second officer	"Silverspruce."
1923	Edson B. Cates	Winthrop	Second officer	"Kansan."

OFFICERS IN THE MERCHANT MARINE—*Continued*

Year.	Name.	Residence.	Position.	Vessel or Service.
1923	George R. Hickey	Rockland	Second officer	"Hog Island."
1923	George J. Andrews	Winthrop	Second officer	"Paul H. Harwood."
1923	Maurice L. Whelan	Whitman	Second officer	"Nebraskan."
1923	Richard E. Pendleton	Bryantville	Second officer	"Schoodic."
1924	Edward B. Ellis	Walpole	Second officer	"Blue Triangle."
1924	Robert H. Murphy	Barnstable	Second officer	"Missourian."
1924	Ralph E. Jernberg	Worcester	Second officer	"Knoxville City."
1924	Sydney Blackledge	Pottersville	Second officer	"Saugus."
1924	Arthur J. Walsh	Watertown	Second officer	"Orinoco."
1925	Joseph A. Scully	Rockland	Second officer	"Mevania."
1925	Frank S. Dowd	Fall River	Second officer	"Metapan."
1925	Winslow M. Rouse	Roxbury	Second officer	"Fairfield City."
1925	Henry K. Bradford	Saugus	Second officer	"Andrew Luckenbach."
1925	Paul L. Litchfield	Lowell	Second officer	"West Harcouver."
1925	James E. Walsh	Watertown	Second officer	"Munargo."
1925	James F. Donovan	Lawrence	Second officer	"Swiftwind."
1925	Thomas A. Jacobs	Amesbury	Second officer	"Manhattan Island."
1925	Malcolm E. Crossman	Taunton	Second officer	"W. S. Rheem."
1926	A. William Fallis	Atlantic	Second officer	"City of Eureka."
1926	Harold A. Weston	Salem	Second officer	"Beacon Hill."
1905	*Laurence G. Kelley	Taunton	Third officer	– –
1912	Francis J. McGowan	Somerville	Third officer	"Lake Grampus."
1915	Earle D. Hammond	Mattapoisett	Third officer	"Katrina Luckenbach."
1916	*Albert Bianchi	Worcester	Third officer	– –
1916	*Richard H. Dunphe	Brockton	Third officer	"West Celina."
1916	*J. Prescott Mahoney	West Wareham	Third officer	"Birmingham City."
1918	Ira D. Dean	So. Natick	Third officer	"La Perla."
1918	William S. Reagh	Wakefield	Third officer	"President Munroe."
1918	James J. Crowley	No. Abington	Third officer	"West Salme."
1919	Jack A. Fraser	Lowell	Third officer	"Missourian."
1919	*Harold B. Wilkinson	Lynn	Third officer	"Lake Galando."
1919	Wm. B. Studley, Jr.	Fairhaven	Third officer	"Manchuria."
1919	George A. Henderson	Brighton	Third officer	– –
1919	Walter W. Jenness	Malden	Third officer	"City of Birmingham."
1920	Daniel J. Coughlin	Lowell	Third officer	– –
1920	*Fred M. Full, Jr.	Rockport	Third officer	– –
1920	*Noble M. Hartley	Winthrop	Third officer	"Lake Fagundas."
1920	Theodore Collins	Milton	Third officer	"Springfield."
1920	*Joseph G. Dean	Springfield	Third officer	"Astmahco."
1920	*Charles A. Freeman, Jr.	Taunton	Third officer	"Lake Foch."
1920	*Richard B. Taylor	W. Somerville	Third officer	"Romulus."
1920	*Ralph E. Tilton	Fitchburg	Third officer	"Crawl Keys."
1920	John F. Hannan	Mattapan	Third officer	"Egremont."
1920	Charles R. Clarke	Lynn	Third officer	"Minnesotan."
1921	Roger J. O'Sullivan	West Medford	Third officer	– –
1921	Philip W. Atkinson	Fitchburg	Third officer	– –
1922	Ernest D. Murray	Everett	Third officer	"President Madison."
1922	John F. Mulvey	Roslindale	Third officer	"West Calumb."
1922	George Worth	Cambridge	Third officer	"Harwick Hall."
1923	Edward P. McGourthy	Roxbury	Third officer	"Lorrain."
1923	William T. Corfield	Roxbury	Third officer	– –
1923	Charles E. Brown	Eastham	Third officer	"West Campgaw."
1924	John F. Doyle	Holyoke	Third officer	"Mobile City."
1925	Harvey J. Reynolds, Jr.	Duxbury	Third officer	"Charcas."
1925	Arthur J. Carnes	Malden	Third officer	"Albatross II"
1925	Henry A. Lee	Beachmont	Third officer	"Cornucopia."
1925	Stephen T. Gill	No. Eastham	Third officer	"Andrew Luckenbach."
1925	Harold M. Mann	Boston	Third officer	"Nile."
1925	Edward C. Pilote	Whitman	Third officer	"La Perla."
1925	Harold V. Nerney	Attleboro	Third officer	"American Legion."
1925	John P. Binney	Milford	Third officer	"Mundelta."
1926	Elwyn W. Hersey	No. Weymouth	Third officer	"Evangeline."
1926	Wm. A. Bradford, Jr.	Saugus	Third officer	"Iowan."
1926	Richard T. Rounds	Billerica	Third officer	"Levisa."
1926	George F. Hudson	Roslindale	Third officer	"Corinto."
1926	Earle B. Vaux	East Lynn	Third officer	"Missourian."
1926	Wendell G. Ames	Medford	Third officer	"Charles Pratt."
1926	Josiah B. Dunlap	Plymouth	Third officer	"Ortega."
1926	John H. Francis	Avon	Third officer	"Luxpalile."
1926	H. Joseph Hassett	Fitchburg	Third officer	"Hilma."
1926	Paul G. Hirst	Amesbury	Third officer	"Halsey."
1926	Frank E. Wirtanen	W. Barnstable	Third officer	"James McGee."
1927	Albert B. Wells	Melrose	Third officer	– –
1927	Arthur E. Lawson	Gloucester	Third officer	"Argon."
1927	Robert H. Davis	Somerville	Third officer	"Atlantic."
1927	Kenneth E. Doolan	Athol	Third officer	"Christy Payne."
1927	Raymond W. Curtis	Taunton	Third officer	"Pennsylvanian."
1927	Prescott L. Dixon	Beverly	Third officer	"Missourian.'
1927	Aylmer R. Hatch	Ware	Third officer	"Santa Cruz."
1927	William F. Nelson	Brockton	Third officer	"Virginian."
1927	John W. Sabine	Auburn	Third officer	"Sunewco."
1927	Howard F. Lane	Forest Hills	Third officer	"Wilscox."

Officers in the Merchant Marine—*Continued*

Year.	Name.	Residence.	Position.	Vessel or Service.
1927	Allen P. Rounds	Billerica	Third officer	"Macabi."
1927	William E. Porter	Lynn	Third officer	MS "J. A. Moffet, Jr."
1927	R. Allen S. Ryder	Chatham	Third officer	"Swift Eagle."
1927	Donald B. Williams	Worcester	Third officer	"Beacon Light."
1927	Donald A. Preble	Wollaston	Third officer	"Western World."
1927	Christian Simonsen	Jamaica Plain	Third officer	"La Perla."
1927	Charles Thistle	Salem	Third officer	"Suscolanco."
1928	William F. Goldsmith	Jamaica Plain	Third officer	"Yarmouth."
1928	William A. Musculus	Roslindale	Third officer	"Lake Gaither."
1928	Lawrence N. Holmes	Malden	Third officer	"Coastwise."
1928	W. Nathaniel Davis	Arlington	–	Yacht "Carma."
1920	William S. Tyrrell	Cambridge	Fourth officer	"President Munroe."
1924	William H. Jacobs	Gloucester	Fourth officer	"Southern Cross."
1925	Leroy N. Andrew	Lynn	Fourth officer	"Kentuckian."
1927	William E. Porter	Lynn	–	Yacht "Amida."
1928	Clifton V. Parker	Chilmark	Fourth officer	"Virginian."

ENGINEER GRADUATES.

1895	Michael D. Sullivan	Worcester	Chief engineer	"Rosecrans."
1896	*James H. B. Meehan	Lowell	Chief engineer	– –
1898	Charles E. Perry	Hyde Park	Chief engineer	"Bibbco."
1898	Frank B. Killion	Malden	Chief engineer	"Kilauea."
1898	William E. Ballsdon	Neponset	Chief engineer	"Herman Winter."
1898	Wilbur S. Lamont	Leominster	Chief engineer	"West Hargrave."
1898	*Everett S. Ransom	E. Mattapoisett	Chief engineer	Yacht "Siele."
1898	Charles E. Rowe	Lynn	Chief engineer	– –
1898	*John C. Ganser	Jamaica Plain	Chief engineer	"Bird City."
1900	Elmer P. Butterworth	Foxboro	Chief engineer	"Gulfking."
1900	William Glover	Wilmington	Chief engineer	Eastern Steamship Lines.
1900	Leslie M. Malloch	Everett	Chief engineer	– –
1901	*Eugene I. K. Murphy	Worcester	Chief engineer	– –
1901	David W. Warren	Everett	Chief engineer	"Evangeline."
1901	*Robert A. Patterson	Cambridge	Chief engineer	– –
1902	Daniel F. Butler	Waltham	Chief engineer	"Gloria."
1903	James S. McGarry	Shrewsbury	Chief engineer	"El Alba."
1903	*Edmund E. Powers	Cambridge	Chief engineer	"Texarkana."
1904	*Cecil L. McIntyre	Ashmont	Chief engineer	"Olen."
1905	*Fred G. Carlton	Maynard	Chief engineer	"H. D. Morse."
1906	*Augustus C. Caldwell	Dorchester	Chief engineer	– –
1906	Victor M. Foster	Revere	Chief engineer	– –
1906	Bradford N. A. Gladding	New Bedford	Chief engineer	– –
1906	*Arthur G. Burbank	Carver	Chief engineer	– –
1907	*George H. Stickney	Watertown	Chief engineer	– –
1907	*Samuel P. Osgood	Middleboro	Chief engineer	"Bessemer City."
1907	*Archie E. Bragg	New Bedford	Chief engineer	– –
1908	*Thomas B. Pellett	Worcester	Chief engineer	– –
1909	*Everett B. Ward	Lynn	Chief engineer	– –
1909	*William A. Sullivan	East Boston	Chief engineer	Mine sweeper.
1909	*Leo A. Keating	Natick	Chief engineer	"F. J. Luckenbach."
1909	Fritz T. Kebler	Rochdale	Chief engineer	– –
1909	Richard K. Henry	Pittsfield	Chief engineer	"Silverbrook."
1909	*Samuel J. Miller	Fall River	Chief engineer	"Lehigh."
1910	George W. Sibley	Worcester	Chief engineer	"Geo. W. Barnes."
1910	Leslie L. Badger	Roxbury	Chief engineer	"Saccarappa."
1910	R. Wilbur Anderson	Mattapan	Chief engineer	"Passaic Bridge."
1911	*Robert F. Phinney	Mattapan	Chief engineer	"Westbrook
1911	John P. Lundergan	Brockton	Chief engineer	"Edward Luckenbach."
1911	Harvey M. Thorndike	Cliftondale	Chief engineer	"El Capitan."
1912	William A. Hamilton	Cliftondale	Chief engineer	– –
1912	Richard K. O'Connell	North Easton	Chief engineer	"Catahoula."
1912	*Richard J. Cavanaugh	New Bedford	Chief engineer	"Agwipond."
1914	Joseph L. Concannon	Melrose	Chief engineer	– –
1915	*Philip J. Durney	Gloucester	Chief engineer	"Gloucester."
1918	John R. Donlin	Medford	Chief engineer	– –
1919	Warren L. Bailey, Jr.	Worcester	Chief engineer	– –
1922	John D. Bosler	Brookline	Chief engineer	Yacht "Amida."
1897	Augustus T. Holmes	Ipswich	First assistant engineer.	"J. M. Guffy."
1900	Earle P. Marshall	No. Easton	First assistant engineer.	"Lake Buckeye."
1901	*Ernest E. Sackett	Lynn	First assistant engineer.	"Wampum."
1902	Augustus W. Hart	No. Truro	First assistant engineer.	– –
1904	*Benjamin L. Welch	Lynn	First assistant engineer.	"Eastern Chief."
1904	Edward J. Chadbourne	Reading	First assistant engineer.	– –
1904	William Stewart	Charlestown	First assistant engineer.	– –
1907	*Joseph R. Wier	Saundersville	First assistant engineer.	"Mexican."
1909	*William E. Caddigan	Dorchester	First assistant engineer.	– –
1910	Harold C. Grover	Stoneham	First assistant engineer.	"Nobles."
1913	Russell A. McLay	Lawrence	First assistant engineer.	"Currier."
1914	Leslie T. Severance	Cambridge	First assistant engineer.	"Malden."
1914	Fred H. Brewster	Somerville	First assistant engineer.	– –
1914	*Arthur C. Goodwin	Somerville	First assistant engineer.	"Evangeline."

OFFICERS IN THE MERCHANT MARINE—*Continued*

Year.	Name.	Residence.	Position.	Vessel or Service.
1914	Benjamin H. Allen, Jr.	Lawrence	First assistant engineer.	"Cambrai."
1914	James A. Sweeney	East Boston	First assistant engineer	– –
1914	*John L. Harding	Taunton	First assistant engineer.	"Explorer."
1914	Charles P. Tucker	Boston	First assistant engineer.	"Northern Wave."
1915	Stanislaus P. J. Ciolkosz	Taunton	First assistant engineer.	"Deuel."
1915	*Roy C. Hartwell	Boston	First assistant engineer.	"Arizonan."
1915	Arthur F. Higgins	Lawrence	First assistant engineer.	"Castlewood."
1915	*Clarence E. Stevens,Jr.	W. Barnstable	First assistant engineer.	– –
1915	*Bernhardt Gerecke	Boston	First assistant engineer.	– –
1916	*Henry A. Guba	New Bedford	First assistant engineer.	"Lake Benton."
1916	*John E. Pilkington	Mansfield	First assistant engineer.	"Hoven."
1916	*Paul Gorman	Marlboro	First assistant engineer.	"Chickasaw City."
1916	*Carl E. Berglund	Brockton	First assistant engineer.	"Toledo."
1916	*Alexander J. Phillips	Easton	First assistant engineer.	"Boundbrook."
1916	George E. Harrington	Worcester	First assistant engineer.	"President Harding."
1917	*Ernest C. Jensen	Provincetown	First assistant engineer.	– –
1917	Ernest E. Raby	No. Easton	First assistant engineer.	"Liberty Minquist."
1917	*Arthur D. Murphy	Beverly	First assistant engineer.	– –
1918	Raymond H. Sample	Montello	First assistant engineer.	"Swiftsure."
1919	Guy M. Hanna	Waltham	First assistant engineer.	"Bogata."
1919	Loran H. Sanford	Beverly	First assistant engineer.	"F. Q. Barstow."
1919	Roger N. Walcott	Concord	First assistant engineer.	"Swiftarrow."
1919	Edward H. Morin	Stoneham	First assistant engineer.	"Eastern King."
1919	John D. Cunningham	Quincy	First assistant engineer.	"Mevania."
1920	John D. Young	Winthrop	First assistant engineer.	"President Adams."
1921	Gerald D. Murphy	Campello	First assistant engineer.	"Julia Luckenbach."
1921	Albert I. Pilkington	Mansfield	First assistant engineer.	"David McKelby."
1922	Roy Y. Gordon	Somerville	First assistant engineer.	"Swiftsure."
1923	Walter J. Murphy	Roxbury	First assistant engineer.	– –
1923	Walter C. Bathelt	Holyoke	First assistant engineer.	"La Perla."
1923	Arthur F. Cole	Lynn	First assistant engineer.	"Eastern Crown."
1924	Edmond P. Martin	Lynn	First assistant engineer.	– –
1925	Joseph W. MacDiarmid	Mansfield	First assistant engineer.	"Steel Inventor."
1903	Harold A. Thompson	S. Framingham	Second assistant engineer	– –
1904	*William A. Danforth	Dorchester	Second assistant engineer	– –
1909	Arthur E. Whiton	Greenwood	Second assistant engineer	"Norwood."
1909	*Frederick H. H. Sylvia	Nantucket	Second assistant engineer	– –
1910	William Bowen	Boston	Second assistant engineer	"Bunker Hill."
1911	David J. Fulton	Wollaston	Second assistant engineer	"Pluto."
1911	George L. Lockhart	Wakefield	Second assistant engineer	"Orion."
1911	*Alfred Marques	Charlestown	Second assistant engineer	– –
1912	George R. Davison	Springfield	Second assistant engineer	"Ancon."
1912	Louis H. Racicot	Somerville	Second assistant engineer	Williams Line.
1913	*Charles J. Balboni	New Bedford	Second assistant engineer	"Bessemer."
1913	Edward J. Fogarty	East Boston	Second assistant engineer	"Ockenfels."
1914	*C. Harold Peterson	Norwood	Second assistant engineer	– –
1915	*John Holmes	Campello	Second assistant engineer	– –
1915	*Sherman J. Barrett	Lawrence	Second assistant engineer	– –
1916	*William W. Thomas	Concord	Second assistant engineer	– –
1916	*Harold W. Sanford	Springfield	Second assistant engineer	– –
1917	Herbert A. James	Wellesley Farms	Second assistant engineer	"Lake Lida."
1917	*John T. Foye	Bridgewater	Second assistant engineer	– –
1917	Dwight W. Boyd	Randolph	Second assistant engineer	"Lake Ellendale."
1918	Elmer J. Kelley	Springfield	Second assistant engineer	"Lake Grogan."
1918	Leroy B. Lowey	Woods Hole	Second assistant engineer	"Swiftwind."
1918	Francis J. Easton	Randolph	Second assistant engineer	"Branbrinno."
1918	Louis H. Johnson	Andover	Second assistant engineer	"Lake Sapor."
1919	Thomas F. Cotter	Lawrence	Second assistant engineer	– –
1919	Frank J. Couble	Brockton	Second assistant engineer	"Pocahontas."
1920	Arthur G. Berteaux	Boston	Second assistant engineer	– –
1920	John L. Flanagan	Lawrence	Second assistant engineer	"Imlay."
1922	George M. Walker	Lowell	Second assistant engineer	"Mundelta."
1923	Thomas F. Fairbrother	Billerica	Second assistant engineer	"Westport."
1923	Elmer H. Bridge	Fall River	Second assistant engineer	"Swiftlight."
1923	John A. Hey	Lawrence	Second assistant engineer	"Mary."
1924	Paul W. Anderson	North Easton	Second assistant engineer	"Wm. N. Page."
1924	James A. MacDonald	Tewksbury	Second assistant engineer	"I. C. White."
1925	Adelbert H. Smith	Dracut	Second assistant engineer	"Wilton."
1925	John J. Woodlock	Mansfield	Second assistant engineer	"David McKelby."
1925	Acer N. Hilbourne	Cliftondale	Second assistant engineer	– –
1925	Paul W. Fellows	Reading	Second assistant engineer	– –
1925	John G. Moore	Roxbury	Second assistant engineer	"Corson."
1925	Richard G. Aaron	Allston	Second assistant engineer	"Floridian."
1926	Harry L. Young	Attleboro	Second assistant engineer	"Swiftscout."
1926	Thomas E. O'Donovan	Dorchester	Second assistant engineer	"La Perla."
1926	Frederick D. Hoitt	Somerville	Second assistant engineer	"Beacon Hill."
1926	Herbert Hooper	Springfield	Second asssitant engineer	"Willbabco."
1926	Boyd Dunbar	Hyde Park	Second assistant engineer	"San Mateo."
1904	Thomas F. Gosnay	Wakefield	Third assistant engineer	– –
1907	Charles S. McDonald	Malden	Third assistant engineer	– –
1911	Walter P. Lynn	Beverly	Third assistant engineer	"Lake Copley."
1911	Joseph C. Chisholm	No. Billerica	Third assistant engineer	– –

Officers in the Merchant Marine—*Concluded.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1911	•Levi E. MacLeod	Gloucester	Third assistant engineer	– –
1913	•Nils J. Peterson	Brockton	Third assistant engineer	– –
1915	•Wilfred C. Herron	Lawrence	Third assistant engineer	– –
1916	Carleton G. Reed	Lexington	Third assistant engineer	– –
1916	Richard A. Standley	Beverly	Third assistant engineer	"Lake Benton."
1917	Philip H. Little	Holbrook	Third assistant engineer	"Lake Forney."
1918	John R. Carden	Haverhill	Third assistant engineer	"Lake Fernwood."
1918	Ralph A. Evers	Somerville	Third assistant engineer	"Swift Eagle."
1918	Karl W. Newman	Brockton	Third assistant engineer	"DeSoto."
1919	George C. Clements	Lynn	Third assistant engineer	"Vanguard."
1919	Charles B. Mitchell	Lawrence	Third assistant engineer	"Malden."
1919	James F. Beatty	Lowell	Third assistant engineer	"Durango."
1920	Lorenzo C. Brown	Everett	Third assistant engineer	"Resolute."
1920	James N. Oldroyd	Lynn	Third assistant engineer	"Lake Butler."
1920	Earle F. Clegg	Worcester	Third assistant engineer	"Puget Sound."
1920	Robert D. Mariner	Cambridge	Third assistant engineer	– –
1920	Ralph B. Warner	Marlboro	Third assistant engineer	– –
1920	•Joseph H. Donahue	Lawrence	Third assistant engineer	Gulf Refining Co.
1920	Chesley L. Kenyon	Huntington	Third assistant engineer	"Maddegat."
1922	Lawrence E. Dorgan	Brockton	Third assistant engineer	– –
1922	Frederick W. Mahoney	Somerville	Third assistant engineer	"Leviathan."
1922	George F. Carreiro	Fall River	Third assistant engineer	"Richard Peck."
1923	Lorenzo H. Smith	Weymouth	Third assistant engineer	"Boston."
1923	Augustin P. Heffron	Marlboro	Third assistant engineer	"Osage."
1924	Daniel C. Seed	Adams	Third assistant engineer	"Sixeola."
1924	James E. Slattery	Westboro	Third assistant engineer	"San Jose."
1924	Webster F. Harrington	So. Lincoln	Third assistant engineer	"C. J. Drake."
1924	Aubrey C. Allen	Marlboro	Third assistant engineer	"Imlay."
1924	Ralph L. Langille	South Boston	Third assistant engineer	"New York."
1924	Ellery H. Capen	New Bedford	Third assistant engineer	"Bogota."
1924	Norman S. Gilchrist	Chatham	Third assistant engineer	"Missourian."
1924	Edwin S. Evans	Paxton	Third assistant engineer	"Virginian."
1925	John E. Nee	Concord Jct.	Third assistant engineer	"Metapan."
1925	Sidney P. Dunn	Gloucester	Third assistant engineer	"Tashmoo."
1925	William R. Fallon	Dorchester	Third assistant engineer	"Leviathan."
1925	Harold W. Bradbury	Cliftondale	Third assistant engineer	"Esparta."
1925	Folke C. Johnson	No. Easton	Third assistant engineer	"Munargo."
1925	John E. Reagan	Fall River	Third assistant engineer	"Middlesex."
1926	Albert A. Corkhill	Methuen	Third assistant engineer	"Java Arrow."
1926	John B. Ashton	Millbury	Third assistant engineer	"San Gill."
1926	John F. Harty	Charlestown	Third assistant engineer	– –
1926	Elwin A. Pilkington	Mansfield	Third assistant engineer	"Chippewa."
1926	Edward R. Coyle	Taunton	Third assistant engineer	"Munplace."
1926	George J. Preston	Weymouth	Third assistant engineer	"Orient."
1926	William A. Halliden	Wollaston	Third assistant engineer	"Lemuel Burrows."
1926	Marshall W. Jones	Cambridge	Third assistant engineer	– –
1926	Lloyd K. Reed	Shrewsbury	Third assistant engineer	"Westpool."
1926	Charles E. L. Kimball	Quincy	Third assistant engineer	"Carillo."
1927	P. Edwin MacDiarmid	Mansfield	Third assistant engineer	"Walter D. Munson."
1927	Charles O. Redmond, Jr.	Lynn	Third assistant engineer	"Fred W. Weller."
1927	Clifford H. Carlson	Bridgewater	Third assistant engineer	– –
1927	John B. McAuliffe	South Boston	Third assistant engineer	– –
1927	Stephen F. Norvish	Brockton	Third assistant engineer	"Swiftlight."
1927	F. Raymond Zeller	Whitman	Third assistant engineer	"Jeanette Skinner."
1927	Edward F. Jaeger	Mattapan	Third assistant engineer	"Minnesotan."
1927	John Proctor	New Bedford	Third assistant engineer	"Zacapa."
1927	Maurice J. A. Belhumeur	Boston	Third assistant engineer	"Suffolk."
1927	Frederick E. Steele	Malden	Third assistant engineer	"Corrillo."
1928	Edgar W. Clough	Campello	Third assistant engineer	"Corapeak."
1928	James A. Whetton	Needham Hts.	Third assistant engineer	"Ohioan."
1928	James E. Saviski	Brockton	Third assistant engineer	"Swiftsure."
1928	Patrick J. Schofield	South Boston	Third assistant engineer	– –
1928	Frederick D. Browning	New Bedford	Third assistant engineer	"Norfolk."
1924	William J. Moran	Millis	Fourth assistant engineer	"West Kedron."
1926	Clyde R. Coburn	Hyde Park	Fourth assistant engineer	"K. I. Luckenbach."
1926	Norman L. Queen	Needham Hts.	Fourth assistant engineer	"Minnesotan."
1927	Gilbert L. Allen	Attleboro	Fourth assistant engineer	"Leviathan."
1927	Nilburn G. Boys	Holyoke	Fourth assistant engineer	"President Harding."
1927	John Wildman	New Bedford	Fourth assistant engineer	"Leviathan."

Special Employment in Marine Department, General Electric Company

(Honor Engineer Graduates.)

1923	Alfred Humphries	Lynn	Special employment	General Electric Co.
1924	Percy J. Lewis	West Lynn	Special employment	General Electric Co.
1924	Albert R. Henreckson	Sharon	Special employment	General Electric Co.
1924	Earl B. Downing	East Lynn	Special employment	General Electric Co.

Special Employment in Marine Department, General Electric Company—*Concluded.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1925	Laurence B. Swan	North Adams	Special employment	General Electric Co.
1925	Acer N. Hilbourne	Cliftondale	Special employment	General Electric Co.
1926	Harry L. Young	Attleboro	Special employment	General Electric Co.
1926	Norman L. Queen	Needham Hts.	Special employment	General Electric Co.
1927	W. Duncan Brimmer	East Walpole	Special employment	General Electric Co.
1927	Charles V. Rowe	Cambridge	Special employment	Genearl Electric Co.
1928	Ernest G. Leavitt	Mansfield	Special employment	General Electric Co.
1928	Charles R. Torkington	Lawrence	Special employment	General Electric Co.

Instructors

1909	*Ervin L. Kelley	Dorchester	Chief engineer	U. S. S. "Nantucket."
1912	*Norman E. Merrill	Melrose	Executive officer	U. S. S. "Nantucket."
1917	William W. Storey	Jamaica Plain	Navigator	U. S. S. "Nantucket."
1917	Alton E. Borden	Fall River	Watch officer	U. S. S. "Nantucket."
1921	Frederick L. Murphy	Roxbury	Assistant engineer	U. S. S. "Nantucket."

The United States Navy

1906	*Howard G. Copeland	Malden	Captain, U. S. N. R.	– –
1907	Thomas Baxter	South Dennis	Lieutenant commander.	U. S. S. "Holland."
1898	Clarence E. Wood	Fall River	Lieutenant commander.	(Ret.)
1898	James H. Wiley	Brighton	Lieutenant commander (U. S. N. R.)	12th Naval District.
1898	Herbert E. Fish	Charlestown	Lieutenant	U. S. S. "Relief."
1902	John F. Murphy	Worcester	Lieutenant	U. S. Naval Academy.
1910	Russell H. Sullivan	Westfield	Lieutenant (s. c.)	11th Naval District.
1906	William R. Dolan	Worcester	Lieutenant	Coco Solo, C. Z.
1916	Darrough S. Gurney	Marion	Lieutenant	U. S. S. "Canopus."
1917	Philip G. Nichols	Peabody	Lieutenant (j. g.)	U. S. S. 0-10.
1922	Eliot Olsen	East Milton	Ensign	U. S. S. "West Virginia."
1899	Leroy Neil	Lynn	Chief machinist	U. S. S. "Robin."
1911	James D. Turnbull	Bridgewater	Pay clerk	St. Thomas, V. I.

The United States Marine Corps

1903	Leander A. Clapp	Brockton	Major	Headquarters, Washington.
1906	Clarence E. Nutting	Cambridge	Major	Parris Island, S. C.

The United States Lighthouse Service

1895	George E. Eaton	Woods Hole	Superintendent	Second Lighthouse District, Boston.
1904	John F. Williamson	Brockton	Captain	U. S. L. H. T. "Speedwell."
1905	Harry W. Maynard	Winthrop	Captain	U. S. L. H. T. "Hyacinth."
1907	*William M. Gifford	Woods Hole	First officer	U. S. L. H. T. "Anemone."
1924	Lawrence W. Croteau	Manchester	Second officer	U. S. L. H. T. "Lotus."
1926	John S. Loring	Shrewsbury	Second officer	U. S. L. H. T. "Shrub."
1928	John T. Barrett, Jr.	Revere	Third officer	U. S. L. H. T. "Favorite."

The Engineer Corps, United States Army

1921	Thomas J. Mew	Holyoke	Second assistant engineer	"Dan C. Kingman."
1923	Frederick N. Dodd	East Lynn.	Second assistant engineer	"Rossell."

The United States Coast Guard Service

1895	Philip W. Lauriat	Medford	Commander	Chief of Staff, New York.
1897	Lorenzo C. Farwell	Dorchester	Commander	"Modoc."
1899	James A. Alger	Reading	Commander	"Manning."
1906	William F. Towle	Boston	Commander	New York.
1896	Webb C. Maglathlin	Bridgewater	Lieutenant commander.	"Northland."
1897	Albert F. Patterson	Townsend	Lieutenant commander.	"Seminole."

The United States Coast Guard Service—*Concluded.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1906	Henry C. Roach	New Bedford	Lieutenant commander.	"McDougal."
1906	*Charles G. Plummer	Mansfield	Lieutenant	"Tuscarora."
1919	Arthur G. Morrill	Melrose	Lieutenant (j. g.)	"Paulding."
1919	Harry C. Howe	Stoneham	Lieutenant (j. g.)	"Wainwright."
1922	Angus S. MacIntyre	Provincetown	Lieutenant (j. g.)	"Ammen."
1923	Julius F. Jacot	Beachmont	Lieutenant (j. g.)	"Mojave."
1919	Paul E. Purdy	Everett	Ensign	Woods Hole.
1919	*Gordon A. Littlefield	Cambridge	Ensign	Boston.
1920	Charles H. Bartlett	Roslindale	Ensign	"Burrows."
1924	J. William Malen	Gloucester	Ensign	"Wainwright."
1925	Richard L. Horne	Gloucester	Ensign	"Mojave."
1925	Stanley F. Piekos	Salem	Cadet	New London, Conn.
1912	Kenneth E. Cahoon	West Tisbury	Boatswain	"Apache."
1916	Randall F. Elder	Brighton	Boatswain	Base 5.
1917	Ernest V. Wyatt	Boston	Boatswain	"Frederick Lee."
1917	Russell W. Thresher	Southbridge	Boatswain	"Gen. Greene."
1919	William H. Moulton	Arlington	Boatswain	Base 7.
1919	G. F. Paul Stone	Pigeon Cove	Boatswain	Base 7.
1921	Norman D. MacLellan	Weymouth	Boatswain	C. G. No. 291.
1922	Emerson J. Cudios	Gloucester	Boatswain	C. G. No. 154.
1922	Edwin S. Baker	Manchester	Boatswain	"Nansemond."
1923	Raymond B. Newell	Revere	Boatswain	"Beale."
1924	Leo J. Libby	Marlboro	Machinist	C. G. No. 131.
1926	Charles T. Conroy	Vineyard Haven	Boatswain	C. G. No. 235.

The Hydrographic Office, Navy Department

1900	Gershom Bradford	Duxbury	Associate nautical engineer	Washington, D. C.
1919	Charles B. Scully	Rockland	Associate nautical engineer	Washington, D. C.
1918	Alexander G. Anderson	Dorchester	Assistant nautical engineer	Washington, D. C.
1919	Arthur O'Leary	South Boston	Assistant nautical engineer	Washington, D. C.
1918	James R. Heaney	East Lynn.	Assistant nautical scientist	Washington, D. C.
1919	Walter J. Cronin	Somerville	Assistant nautical scientist	Washington, D. C.
1918	James C. MacKenzie	Dorchester	Assistant nautical scientist	Washington, D. C.
1920	William G. Watt	Auburndale	Assistant nautical scientist	Washington, D. C.

Ship Construction

1916	*Howard U. Chase	Nantucket.	Superintendent	South Beach Boat Co., Nantucket.
1909	Stanton Haversham	Bridgeport	Hull draftsman	Lake Torpedo Boat Co.
1905	Reginald W. Burdekin	Northampton	Induction motors	General Electric Co.
1923	Alfred Humphries	Salem	Assistant foreman	General Electric Co.
1924	Percy J. Lewis	Lynn	Diesel expert	Ingersoll Rand Co., Diesel engineers.
1924	Earle B. Downing	East Lynn.	Field engineer.	General Electric Co.
1924	Albert R. Henreckson	Sharon	Plant engineer	General Elecrric Co.
1909	Louis F. Jones	Wollaston	Machinist	Navy Yard, Boston

Appropriations

The appropriations for the school for the fiscal year 1928, from December 1, 1927, to November 30, 1928, are here accounted for as follows:

Expenses of Schoolship.	Appropriation.	Expenditures.
Personal services	$46,300 00	$43,007 01
Travel, transportation and office expenses	2,000 00	2,510 15
Food	21,500 00	21,580 79
Furnishings and household supplies	900 00	1,342 72
Medical and general care	1,300 00	1,682 63
Heat, light, power, etc.	9,500 00	9,128 69
Repairs, ordinary	2,900 00	3,052 62
Miscellaneous	2,675 00	3,318 87
Appropriation by the Commonwealth*	$87,075 00	$85,623 48
Unexpended balance	–	1,451 52
	$87,075 00	$87,075 00

Expenses of Commission.	Appropriation.	Expenditures.
Personal services	$4,460 00	$4,459 00
Office supplies and equipment	350 00	212 41
Traveling and other services and expenses	1,950 00	2,082 04
Appropriation by the Commonwealth*	$6,760 00	$6,753 45
Unexpended balance	–	6 55
	$6,760 00	$6,760 00

* The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

The estimates for the year 1929, are as follows:

Expenses of Schoolship	$91,150
Expenses of Commission	2,372
Personal Service	4,720

Respectfully submitted,

WILLIAM E. McKAY, *Chairman.*
CLARENCE E. PERKINS.
THEODORE L. STORER.

Public Document No. 42

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The Commonwealth of Massachusetts

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1929

MASSACHUSETTS NAUTICAL SCHOOL
DEPARTMENT OF EDUCATION

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE
850. 1-'30. Order 7549

The Commonwealth of Massachusetts.

DEPARTMENT OF EDUCATION.

PAYSON SMITH, *Commissioner of Education.*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL,

14 Beacon Street, Boston.

WILLIAM E. McKAY, *Chairman.*
CLARENCE E. PERKINS.
THEODORE L. STORER.

WILLIAM H. DIMICK, *Secretary.*

REPORT OF THE COMMISSIONERS.

To the Commissioner of Education.

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1929, the thirty-eighth annual report.

School Calendar, 1929.

Spring entrance examinations:	March 28, 29, 30
Winter term ended:	April 3
Spring graduation:	April 3
Summer term commenced:	April 29
"Nantucket" sailed from Boston:	May 22
"Nantucket" arrived at Boston:	September 27
Autumn entrance examinations:	October 3, 4, 5
Autumn graduation:	October 8
Summer term ended:	October 8
Winter term commenced:	October 28

In his inaugural message on January 3, 1929, His Excellency the Governor, Frank G. Allen, said: "The continued prosperity and well-being of Massachusetts depends largely upon the ability of our young people to meet the demands of an advancing and progressive age. Educational standards must keep pace with the times. I believe every student should have as good an educational groundwork as possible, suited so far as feasible in each case to his special interests and capabilities."

The function of the Massachusetts Nautical School is to provide an education for the young men of the State whose special interests and capabilities are on the sea. It is providing a vocational education for qualified young men who cannot otherwise afford a technical training. The course includes two years of practical and theoretical instruction in seamanship, navigation, and marine engineering. The regulations require candidates to be between seventeen and twenty years of age and sons of citizens of Massachusetts. Classes are admitted semi-annually by *competitive examination* in April and October. The school is conducted on board the U. S. S. "Nantucket," a steam vessel with sail power, which cruises at sea from May until September, and in the winter is moored at the North End Park, Boston.

Applicants entering the school make a clothing fund deposit of $150, a graduation deposit of $50, and pay a tuition fee of $50. The graduation deposit is returned to the cadet upon graduation; if he fails to graduate for any reason, it is forfeited

to the State. At the beginning of the second year of the course, there is required a clothing fund deposit of $50 and a tuition fee of $50.

Since its establishment thirty-eight years ago, the school has been remarkably successful. It has been filled to its capacity, with a waiting list from which to fill any vacancies occurring during the first weeks of the course. It is providing officers for the merchant marine and a naval reserve ready for instant use whenever needed. Few if any State technical schools have so large a per cent of graduates engaged in the special work for which they were educated and trained. The record of the graduates as operating managers, marine superintendents, superintending engineers, port captains, captains, chief engineers, and in other important positions is given at the end of this report.

The Work of the Year.

The year 1929 has been a normal one. There has been a sustained demand for the education which the school provides. The summer practise cruise to southern Europe of 11,257 miles was satisfactory, affording excellent opportunities for professional training not only at sea but in port. The demand for the graduates from prominent ship owners continues to be in excess of the supply.

In the spring, the Federal Government made extensive repairs to the hull and machinery of the "Nantucket," placing the ship in good condition for the work of the school.

Saving Life and Property at Sea.

The graduates of the school have from time to time performed notable work in saving life and property at sea. During the past year their record in this regard has been an unusually brilliant one.

On December 6, 1929, Harold L. Winslow, of Canton, class of 1912, Chief Officer of the trans-Atlantic liner "Republic," rescued the crew of eleven men from the Schooner "Gander Deal," which foundered 550 miles off the coast of Newfoundland. Graduate Winslow was in charge of the life-boat with a volunteer crew, the conditions of wind and sea making the rescue a difficult and hazardous one.

Sydney L. MacLaughlin, of Lexington, class of 1917, Captain of the yacht "Amida," one of the largest and best equipped ocean-going yachts afloat, rescued the crew of the four-masted schooner "James E. Coburn," which foundered in the Atlantic on April 17, 1929. The exhausted crew of ten men were picked up on April 25, after being in an open boat eight and one-half days.

In February, Carroll P. Burgess of Plymouth, class of 1922, First Officer of the "S. S. Swiftscout," was in charge of the boat's crew that rescued the crew of the schooner "H. D. MacLean," just before the ship sank in the Atlantic Ocean off the Virginia Capes.

The steamer "Silver Maple," disabled in a storm by the loss of her rudder on January 29, 1929, was towed by the U. S. S. Coast Guard steamers "Tampa" and "Mojave" 450 miles to Bermuda. Angus S. MacIntyre, class of 1922, was Navigating Officer of the "Tampa" and Julius F. Jacot, class of 1923, was a Lieutenant on board the "Mojave."

Henry K. Bradford of Saugus, class of 1925, an officer on board the "S. S. West Honaker" of the Roosevelt Steamship Company, jumped overboard in a heavy sea and rescued seaman Harvey Johnson, who had been swept from the deck of the ship. The rescue took place in the Indian Ocean on July 9, 1929, while the "West Honaker" was proceeding to New York from Calcutta. Mr. Bradford has been awarded a gold medal and $100 by the New York Board of Underwriters.

California Nautical School.

The development of American shipping and the enlarged interest in maritime matters have resulted in a demand for additional State nautical schools. California has established a nautical school along similar lines to the Massachusetts school. It is to be maintained at the port of San Francisco. The states of Florida, Vir-

ginia, Louisiana and Texas are considering the establishment of State nautical schools.

New Tonnage.

It is expected that during the next five years the American merchant marine will experience a large increase. As a result of the enactment of the Merchant Marine Act of 1928, many ships are being constructed in American shipyards for the coastwise and foreign trade. Contracts for new tonnage have been awarded by the Export Steamship Corp., Roosevelt Steamship Co., the Oceanic Steamship Co., the Dollar Line, the Ward Line, and other lines. The Inter-Departmental committee on mail contracts has approved the building of twenty-nine ocean mail steamers at a cost of about $160,000,000 during the next five years. Three of these ships must register 45,000 tons, two with a speed of 28 knots, and one with a speed of 24 knots.

The Graduates of the School.

The following is a list of the fifty-two graduates of 1929, the names of their home towns, and of the vessels on which they are serving:

Joseph W. Balevic	Lowell	S. S. Texan	American-Hawaiian Line
Austin L. Brown	Millbury		
Walter J. Buckley	Cambridge	S. S. Evangeline	Eastern Steamship Lines
Matthew J. Carnes	Malden	S. S. Natirar	Yankee Line
Myron W. Chamberlin	Three Rivers		
George H. Chapman, Jr.	Lowell	S. S. Pennsylvanian	American-Hawaiian Line
Ove Christensen	Waltham	S. S. Evangeline	Eastern Steamship Lines
Leroy S. Colby, Jr.	Lawrence	S. S. William Warden	Standard Oil Co.
Earl Colclough	Malden	S. S. Eastern Glen	American Export Lines
Warren S. Corbett, Jr.	West Roxbury	S. S. Excello	American Export Lines
C. David Cox	Fitchburg	S. S. Excelsior	American Export Lines
Austin D. Cushman, Jr.	Everett	S. S. Excelsior	American Export Lines
Donald P. Dana	Boston	S. S. El Albia	Southern Pacific Co.
Henry W. Daniels	West Medway	S. S. Ancon	Panama R.R. Steamship Co.
George M. Duke	Shrewsbury	S. S. Calamares	United Fruit Company
Herbert W. Dunham	Danvers	S. S. Courageous	Roosevelt Steamship Co.
Gilbert F. Endicott	Shrewsbury	S. S. Arizonan	American-Hawaiian Line
Eric Ernst	Holyoke	S. S. Teagle	Standard Oil Co.
John L. Fay	Dedham	S. S. Mayari	United Fruit Co.
James A. Frew	Quincy	Special Employment	General Electric Co.
William R. Gilman	East Pepperell	S. S. Yarmouth	Eastern Steamship Lines
John P. Haberlin	East Boston	S. S. Crampton Anderson	Cities Service Co.
Francis M. Hannigan	Newton Centre	S. S. San Bruno	United Fruit Co.
Weston T. Healy	Fall River	S. S. Black Point	C. H. Sprague & Co.
James H. Hill	Wollaston	S. S. San Gill	United Fruit Co.
Homer R. Hotin	Holyoke	S. S. Hawaiian	American-Hawaiian Line
T. Gerard Hoyle	Quincy	Special Employment	General Electric Co.
Samuel E. Johnson	East Milton	S. S. Toloa	United Fruit Co.
George H. Kinsman	Jamaica Plain	S. S. Lake Benbow	Ford Motor Co.
John B. Knight, Jr.	Chicopee Falls	S. S. City of New York	American Export Lines
Oscar M. Lambine	East Walpole	S. S. Excelsior	American Export Lines
William A. Leary	Fall River	M. S. Seminole	Roosevelt Steamship Co.
A. Franklin Loring	Concord Junction	S. S. Fairfax	Merchants & Miners Transportation Co.
Peter MacCurrach, Jr.	Hamilton	S. S. El Dia	Southern Pacific Co.
Roderick H. MacKenzie	Roxbury	S. S. City of Fairbury	American-Scantic Lines
Hugh O. Magarian	Lynn	S. S. Texan	American-Hawaiian Line
Robert E. McIntosh	Haverhill	S. S. Bridgeton	Columbian Steamship Co.
Charles G. Merry	West Somerville	S. S. Iriona	United Fruit Co.
Allen M. Moyer	Allston	S. S. Tivives	United Fruit Co.
John J. O'Connor	Wollaston	S. S. El Dia	Southern Pacific Co.
William J. Otto, Jr.	Roslindale	S. S. Yarmouth	Eastern Steamship Lines
Paul R. Pearce	Holyoke	M. S. Defiance	Roosevelt Steamship Co.
Charles H. Peterson	Worcester	At Sea	Luckenbach Line
Robert E. Polley	Needham Heights	S. S. Metapan	United Fruit Co.
Robert G. Redmayne	Norwood	S. S. Sagaporack	Moore and McCormack Co.
Joseph T. Remmes	Lawrence	M. S. Courageous	Roosevelt Steamship Co.
William G. Rosso	Lynn	M. S. Tampa	Roosevelt Steamship Co.
Joseph H. Seaver, Jr.	Newton Lower Falls	S. S. Beaconoil	Beacon Oil Co.
Roger K. Smith	Brookline	S. S. Leviathan	United States Lines
Walter C. Stone	Scituate	S. S. Peter H. Crowell	Mystic Steamship Co.
Frank B. Tymosko	Worcester	S. S. America	United States Lines
Louis A. Woodland, Jr.	Fall River	S. S. Leviathan	United States Lines

It is worthy of note that of the fifty-two graduates, fifty are following the vocation for which they were trained.

The School Record.

During the year there have been 189 students on the rolls of the school. They came from 81 cities and towns of the Commonwealth, as follows:

Abington	2	Melrose	3
Amesbury	1	Medway	1
Arlington	2	Middleborough	1
Athol	2	Milford	1
Attleboro	2	Millbury	1
Belmont	2	Milton	1
Beverly	3	Needham	1
Boston	18	New Bedford	2
Bradford	1	Newton	4
Braintree	1	Norwood	2
Bridgewater	1	Ocean Grove (Swansea)	1
Brockton	3	Pepperell	1
Brookline	4	Quincy	6
Brookville	1	Raynham	1
Cambridge	3	Reading	2
Charles River	1	Revere	1
Cheshire	1	Sagamore (Bourne)	2
Chicopee	2	Salem	2
Concord	1	Scituate	1
Danvers	1	Shrewsbury	3
Dedham	1	Somerville	4
Edgartown	1	Springfield	4
Everett	2	Taunton	1
Fall River	11	Tewksbury	1
Fitchburg	1	Three Rivers (Palmer)	2
Framingham	2	Waban	1
Georgetown	2	Walpole	3
Gloucester	2	Waltham	3
Hamilton	1	Ware	1
Haverhill	3	Watertown	1
Holyoke	10	Waverley	1
Hull	1	Wellfleet	1
Lawrence	5	Westport	1
Lenox Dale	1	West Springfield	1
Leominster	2	Weymouth	1
Lexington	1	Wilmington	1
Lowell	4	Winthrop	2
Lynn	5	Woburn	3
Malden	4	Worcester	3
Mansfield	1		
Medfield	1		189
Medford	4		

The previous education of these students was as follows: High schools, 169; academies, 7; vocational schools, 6; technical schools, 3; colleges, 2; grammar schools, 2. The average age of the cadets at entrance was 18 years, 5 months. The number of cadets enrolled in the school at present is 118.

Graduation Exercises.

The sixty-ninth graduation exercises were held on Wednesday, April 3, 1929, at 11 A.M. It was necessary to hold these exercises in the Armory, Navy Yard, Charlestown, as the hull and boilers of the "Nantucket" were under extensive repairs. The program was as follows:

Invocation: Chaplain Evan W. Scott, U. S. N.

Address by Presiding Officer: William E. McKay, Chairman of the Board.

Address: Rear Admiral Philip Andrews, U. S. N., Commandant of the First Naval District.
Address: Mr. Frank W. Wright, Deputy Commissioner of Education.
Presentation of Alumni Association Prizes: Mr. Edward J. Hogan, President of the Alumni Association.
Seamanship Class: Louis A. Woodland, Jr., of Fall River.
Engineering Class: James A. Frew, of Quincy.
Presentation of Maritime Association Prizes: Mr. Albert T. Gould, Member of the Governing Board of the Maritime Association.
Seamanship Class: Louis A. Woodland.
Engineering Class: James A. Frew.
Representing the General Electric Co.: Ensign O. Lawrence Jarrett, U. S. N.
Presentation of Bibles: Chaplain Evan W. Scott, U. S. N.
Presentation of Diplomas: Rear Admiral Philip Andrews, U. S. N.

The seventieth graduation exercises were held on board the "Nantucket" at the North End Park on Tuesday, October 8, 1929, at 11 A.M. The program was as follows:

Invocation: Chaplain Evan W. Scott, U. S. N.
Address by Presiding Officer: William E. McKay, Chairman of the Board.
Address: Capt. Ralph Earle, U. S. N., Retired, President, Worcester Polytechnic Institute.
Presentation of Alumni Association Prizes: Capt. Charles H. Hurley, Secretary of the Alumni Association.
Seamanship Class: Myron W. Chamberlin of Three Rivers (Palmer).
Engineering Class: T. Gerard Hoyle of Quincy.
Presentation of Maritime Association Prizes: Mr. William P. F. Ayer, Member of the Governing Board of the Maritime Association.
Seamanship Class: Myron W. Chamberlin.
Engineering Class: T. Gerard Hoyle.
Presentation of Wood-Whitman Memorial Prize by Commissioner Theodore L. Storer: Myron W. Chamberlin.
Representing the General Electric Co.: Mr. Charles R. Torkington, Lawrence, M. N. S., 1928.
Presentation of Bibles: Chaplain Evan W. Scott, U. S. N.
Presentation of Diplomas: Commissioner Clarence E. Perkins.

Lectures.

Winter Term, 1928–1929.

1928.
December 12. Prof. Harlan T. Stetson. Subject: "Astronomy."
December 19. Hubert W. Perry: Musical Entertainment.

1929.
January 9. Rev. James D. Cummins. Subject: "The Qualities Necessary for Success."
January 16. John E. Macy, class of 1896. Subject: "Admiralty Law."
January 23. Capt. Herman T. Parker, class of 1902. Subject: "The Essential Qualities of a Deck Officer."
January 30. Rear Admiral R. R. Belknap, U. S. N. Subject: "What It Means to be an Officer."
February 6. Capt. George E. Eaton, class of 1895. Subject: "The Lighthouse Service."
February 13. Prof. Albert Bushnell Hart. Subject: "Washington and Lincoln."
February 20. Mr. James O. Porter. Subject: "Bills of Lading and Salvage."
February 27. Dr. A. R. Sweeney. Subject: "Quarantine Rules and Regulations."

Officers and Instructors.

The present officers and instructors of the school are as follows:

Armistead Rust, Captain U. S. N., Retired, Superintendent of Schoolship.
Norman E. Merrill (graduate M. N. S.), Schoolship Executive Officer.
William W. Storey (graduate M. N. S.), Schoolship Navigator.
Richard T. Rounds (graduate M. N. S.), Schoolship Watch Officer.
Nicolai S. Sivertsen, Schoolship Watch Officer.
Ervin L. Kelley, Lieutenant, U. S. N. R. (graduate M. N. S.), Chief Marine Engineer.
Norman L. Queen (graduate M. N. S.), Assistant Marine Engineer.
Arthur L. Wheeler, Schoolship Instructor in Mathematics.
Robert S. Palmer, M. D., Schoolship Surgeon.
Charles Parker, Schoolship Paymaster.

Detailed Report on the Practice Cruise.

The "Nantucket" sailed from Provincetown on May 25, 1929, and arrived at Ponta Delgada, Azores, on June 7; during the passage 1,200 miles were made under sail, 610 miles under sail and steam, and 384 miles under steam.

The ship left Ponta Delgada on June 11, arriving at Seville, Spain, on June 17. The Ibero-American Exposition was being held in Seville and the cadets had every opportunity to visit it. A full size model of the "Santa Maria," the flagship of Christopher Columbus, was anchored in the river not far from the "Nantucket."

The "Nantucket" sailed from Seville on June 21 and arrived at Gibraltar on June 22. Off Cape Trafalgar, three battleships from the United States Naval Academy, the "Arkansas," "Florida" and "Utah," passed bound for Barcelona.

Leaving Gibraltar on June 29, the "Nantucket" arrived at Naples on July 5, where the battleships "Arkansas," "Florida" and "Utah" were found at anchor. The "Nantucket" sailed from Naples on July 9 and arrived at Corfu, Greece, on July 12. On July 10 a moderate gale with a rough choppy sea was experienced, which occasioned much seasickness among the new cadets and some of the others.

Sailing from Corfu on July 14, the "Nantucket" arrived at Venice, Italy, on July 17. At Venice, arrangements were made with the Manager of the British Institute for Seamen for the cadets to visit a number of places of historic interest. The ship sailed from Venice on July 23 and arrived at Pola, Italy, on the same day.

Left Pola on July 27 and arrived at Spalato, Dalmatia, on July 28. At Spalato a committee visited the ship with an interpreter to inspect the school and obtain information regarding its work preliminary to purchasing a schoolship. Sailing from Spalato on July 31, Ragusa, Dalmatia, was reached on August 1.

The "Nantucket" sailed from Ragusa on August 4 and arrived at Cattaro the same day. Topla, Teodo, and Cattaro Bays, surrounded by mountains from 3,000 to 5,000 feet high, afforded excellent opportunities for boat work. Cattaro was left behind on August 7 and Valetta, Malta, was reached on August 10.

Sailing from Malta on August 14, Gibraltar was sighted on August 20. At Gibraltar it was necessary to remove a growth of barnacles which had accumulated on the ship's hull by listing the ship first to one side and then to the other. The "Nantucket" sailed from Gibraltar August 24 and arrived at Funchal on August 28.

The "Nantucket" sailed from Funchal, Madeira, on September 1 and arrived at St. Georges, Bermuda, on September 17. The wind in the trades was very light, making it necessary to call at Bermuda for coal. The distances made good from Funchal to Bermuda: under steam, 854 miles; under steam and sail, 1,536 miles; and under sail, 449 miles.

Sailed from St. Georges on September 17 and arrived at Provincetown on September 21, via the Cape Cod Canal. Distances made good from Bermuda to Provincetown: under steam, 166 miles; under steam and sail, 524 miles.

Total mileage for the cruise:

Under steam	4,553 miles
Under steam and sail	4,772 miles
Under sail	2,093 miles
Total	11,418 miles

Coal Report.

On hand and received	811.5 tons
Expended	806.6 tons
Remaining	4.9 tons

Items.

Moving ship and banked fires	564.6 tons
Dynamos and auxiliaries	209.7 tons
Distilling	24.8 tons
Galleys	7.5 tons
Total	806.6 tons

Cadet Officers of the Massachusetts Nautical School.

summer term, 1929.

Myron W. Chamberlin, *Cadet Master.*

Navigation.

Austin D. Cushman, Jr. . . . . *Cadet First Officer.*
George H. Chapman, Jr. . . . . *Cadet Second Officer.*
Earl Colclough . . . . . *Cadet Third Officer.*

Engineering.

T. Gerard Hoyle . . . . . *Cadet First Assistant Engineer.*
George H. Kinsman . . . . . *Cadet Second Assistant Engineer.*

winter term, 1929–30.

James F. Conniff, *Cadet Master.*

Navigation.

James E. Woodward . . . . . *Cadet First Officer.*
Arthur G. Wood . . . . . *Cadet Second Officer.*

Engineering.

Alison M. Ellis . . . . . *Cadet Engineer.*
Zygmund P. Soboczinski . . . . . *Cadet First Assistant Engineer.*
C. Reginald Whittier . . . . . *Cadet Second Assistant Engineer.*

CADETS ADMITTED, GRADUATED AND HONORABLY DISCHARGED, FROM 1893 TO 1929 INCLUSIVE.

	Admitted.	Graduated.			Honorably discharged.	Withdrawn, dismissed, dropped.	Number connected with the school.
		Seamanship Class.	Engineer Class.	Totals.			
1893	141	–	–	–	29	24	138
1894	63	–	–	–	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	133
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
1929	71	23	29	52	12	7	189
Totals	2,680	715	659	1,374	712	477	–

MEMBERSHIP OF THE SCHOOL.

(*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.)

GRADUATING CLASS, APRIL, 1929.

Seamanship Division.

***Woodland, Louis A., Jr.**	Fall River
Hotin, Homer R.	Holyoke
Johnson, Samuel E.	East Milton
Leary, William A.	Fall River
Tymosko, Frank B.	Worcester
Magarian, Hugh O.	Lynn
Balevic, Joseph W.	Lowell
Moyer, Allen M.	Allston

O'Connor, John J.	Wollaston
Smith, Roger K.	Brookline
Healy, Weston T.	Fall River
Daniels, Henry W.	West Medway

Engineering Division.

Frew, James A.	Quincy
Otto, William J., Jr.	Roslindale
Haberlin, John P.	East Boston
Hannigan, Francis M.	Newton Centre
Hill, James H.	Wollaston
Colby, Leroy S., Jr.	Lawrence
Christensen, Ove	Waltham
Ernst, Eric	Holyoke
Fay, John L.	Dedham
Pearce, Paul R.	Holyoke
Brown, Austin L.	Millbury
Peterson, Charles H.	Worcester
Buckley, Walter J.	Cambridge
Dana, Donald P.	Boston
Seaver, Joseph H., Jr.	Newton Lower Falls
MacCurrach, Peter, Jr.	Hamilton

Graduating Class, October, 1929.

Seamanship Division.

***Chamberlin, Myron W.**	Three Rivers
Cushman, Austin D., Jr.	Everett
Rosso, William G.	Lynn
Chapman, George H., Jr.	Lowell
Colclough, Earl	Malden
Dunham, Herbert W.	Danvers
Remmes, Joseph T.	Lawrence
Merry, Charles G.	West Somerville
Knight, John B., Jr.	Chicopee Falls
Polley, Robert E.	Needham Heights
MacKenzie, Roderick H.	Roxbury

Engineering Division.

***Hoyle, T. Gerard**	Quincy
Redmayne, Robert G.	Norwood
McIntosh, Robert E.	Haverhill
Endicott, Gilbert F.	Shrewsbury
Lambine, Oscar M.	East Walpole
Kinsman, George H.	Jamaica Plain
Cox, C. David	Fitchburg
Gilman, William R.	East Pepperell
Stone, Walter C.	Scituate
Duke, George M.	Shrewsbury
Carnes, Matthew J.	Malden
Corbett, Warren S., Jr.	West Roxbury
Loring, A. Franklin	Concord Junction

Class to Graduate, April, 1930.

Seamanship Division.

***Conniff, James F.**	Newtonville
Dickinson, Russell	Taunton
Woodward, James E.	Auburndale
Wood, Arthur G.	Brookline
Entwistle, George B.	New Bedford
Smith, Robert B.	Malden
Casey, Maurice P.	Fall River
Noyes, Frederick R.	Lexington

(*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.)

Skuse, Paul H.	Watertown
Williams, Ernest	Holyoke
Cutter, Ralph F.	Athol
Roscoe, Kenneth S.	Charles River
Neilson, Larz D.	Wilmington
Sherman, George W.	Raynham Center

Engineering Division.

Ellis, Alison M.	Attleboro
Soboczinski, Zygmund P.	Haverhill
Whittier, C. Reginald	Danvers
Healy, Melvin F.	Fall River
Bergin, J. D. Clyde	West Springfield
Knapton, Alfred E.	Lawrence
Sheehan, Daniel A.	Lawrence

CLASS TO GRADUATE, OCTOBER, 1930.

Seamanship Division.

***Bellhouse, Alan R.**	Medford
Maziarz, Peter R.	Holyoke
Small, Donald R.	Sagamore
MacLean, L. Lloyd	Fall River
Kacocha, Charles A.	Ware
Best, Harry J., Jr.	Brookville
Clogston, Carleton H.	Lowell
Sholes, John E.	Waban
Brown, William E., Jr.	Woburn
Davis, Charles A., Jr.	North Abington
Ross, Roy I.	Cambridge
Donlevy, William F.	Attleboro
Koskela, Aarne E.	Sagamore
Shepherd, James W.	Lowell
Harrington, James G.	Waverley
Lunt, Austin W.	Athol
Crocker, Carleton W., Jr.	East Boston
Brouillet, Arthur L.	Holyoke
Heath, Howard K.	Lawrence

Engineering Division.

Bellucci, Silvio	Mansfield
Deering, Daniel T.	Beverly
Davies, George N.	Tewksbury
Garner, Wilfred J., Jr.	Holyoke
Mailhiot, Elmer E., Jr.	Melrose
Alger, Stanley D.	Atlantic
Whitehead, Gilbert J.	East Walpole
Blackwood, Harry P., Jr.,	Brookline
Ingram, Joseph P.	Leominster
Morgan, Everett L.	Brockton
Whalley, Robert E.	Salem
Buliung, Paul W.	Framingham

CLASS TO GRADUATE, APRIL, 1931.

Bienia, Walter J.	New Bedford
Nelson, Nels P.	Walpole
Tuliszewski, Joseph	Norwood
Pendergast, William R.	Everett
Freeman, Raymond R., Jr.	Wellfleet
Whitney, Gordon P.	Leominster
Green, John E., Jr.,	Medford
Fortunati, Joseph F., Jr.	Somerville
McPhee, Harold R.	Gloucester

(*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.)

Conners, Bernard E.	Salem
Sullivan, James L.	Fall River
Cederberg, Stanley W.	Woburn
Scott, Walter L.	Fall River
Rowe, Robert L.	Worcester
Crosby, James D.	Belmont
Driscoll, William G.	Belmont
Irving, Richard W.	West Roxbury
Olson, Walter E., Jr.	Annisquam
Barry, Ralph L.	Brockton
Hammer, Arthur J.	West Roxbury
McKeon, Clifford J.	Hull
Mundy, Joseph H.	Revere
Raymond, Eugene C.	Springfield
Poor, Bailey	Medfield
Peck, George F. J.	Braintee
Hunter, Charles R.	East Boston
Banach, Thaddeus A.	Holyoke
Balch, Kenneth B.	Springfield
Munro, Adelbert G.	Medford
Berry, Paul L.	Malden
Kenney, Paul J.	West Somerville

Class to Graduate, October, 1931.

(Alphabetically arranged.)

Allman, Paul J.	Chicopee Falls
Barkowsky, Anthony J.	Brockton
Bentley, William F.	Winthrop
Berry, Hilary J.	Melrose Highlands
Brozek, John J.	Three Rivers
Burrage, Edward B.	Reading
Bushey, John O.	Woburn
Callaghan, Daniel F.	Roslindale
Case, W. Evans DeW.	Cheshire
Casilli, Richard J.	Roslindale
Chambers, Alden R.	Boston
Charlton, William S.	Jamaica Plain
Connors, Robert J.	Prides Crossing
Dimock, Joseph J., Jr.	Springfield
Grant, Allen A.	Somerville
Holt, Everett E.	Georgetown
Jarman, Warren E.	Haverhill
Jones, Alwin C.	Middleboro
Kiely, Robert T.	Lynn
Knowlton, Herbert W.	Arlington
Little, John S.	Melrose
Nicholson, George N.	Cambridge
Paradis, J. H. Marcel	Fall River
Peabody, Malburne J.	Georgetown
Phipps, Leroy F.	Waltham
Playdon, George W.	Reading
Polletta, Pasquale M.	Amesbury
Regan, John B.	Bradford
Shockley, Robert B.	Bridgewater
Small, Charles G.	Brookline
Smith, Philip M., Jr.	Milford
Thombs, Stanley A.	Shrewsbury
Willoughby, John A.	Edgartown
Woodland, Stanley M.	Fall River

REGISTER OF GRADUATES.

Officers in the Merchant Marine.

[*Enrolled in the United States Naval Reserve during the World War.]

Year.	Name.	Residence.	Position.	Vessel or Service.
1895	Clarence E. Perkins	Winthrop	Commissioner	Massachusetts Nautical School.
1895	Charles H. Lincoln	Gloucester	Marine surveyor	Detroit.
1896	John O. Sargent	Worcester	– –	U. S. Shipping Board, Detroit.
1897	*Frederick W. Jones	Cambridge	– –	U. S. Shipping Board, Washington.
1898	Joseph E. Sheedy	Reading	President	United States Lines.
1899	Edward G. Smith	Boston	Port captain	Freeport Sulphur Co.
1900	*Hollis M. Cornwall	Melrose	Marine superintendent.	Merchants & Miners Transportation Co.
1901	*John J. Coholan	South Boston	Marine superintendent.	Galveston, Texas.
1901	Theodore H. Bicknell	Melrose	Marine superintendent.	Shepard & Morse Lumber Co.
1901	*Robert A. Patterson	Cambridge	Port engineer	Triton Oil Co., New York.
1901	Frank A. Browne	Westboro	General purchasing agent	U. S. Shipping Board.
1901	Sidney A. Maglathlin	W. Bridgewater	Supervising engineer	Ocean Accident and Guarantee Corp.
1902	Herman T. Parker	Rockport	Port captain	Eastern Steamship Lines.
1903	Nicholas J. Kane.	Whitman	Marine superintendent.	American-Hawaiian Lines.
1905	Charles F. Tarr	Taunton.	Port engineer	U. S Shipping Board, Philadelphia.
1906	*William H. Lee	Malden	Marine superintendent.	Roosevelt SteamshipCo.
1907	Paul R. Smith	Concord	Operating manager	Roosevelt Steamship Co.
1907	Walter L. Smith	Ashburnham	Port captain	U. S. Shipping Board, Baltimore.
1907	Harry Manter	Nantucket	Port captain	U. S. Shipping Board, New York.
1908	*Edward S. Ells, Jr.	Haverhill	– –	U. S. Shipping Board.
1909	*Carroll E. Higgins	Somerville	Marine surveyor	Insurance Company of North America, New York.
1909	Robert S. Sparrow	Eastham	Marine superintendent.	Barber Steamship Lines New York.
1911	Norris T. Ela	E. Douglas	Marine superintendent.	Atlantic, Gulf and Pacific Corp., Baltimore.
1911	*William M. Gorham	Winthrop	General manager	Kauai Railway Co., Kauai, Hawaii.
1912	*Herbert A. Burns	New Bedford	Vice-president	F. Jarka Co., Inc. New York.
1912	*John M. Marks	Gloucester	Superintendent	Yonkers Ferry.
1914	*Gerard R. Crosby	Orleans	Surveyor	Board of Underwriters, San Francisco.
1915	*Charles H. Hurley, Jr.	Gardner	President	Bay State Shipping Co.
1915	Edward R. Rhodes	Lowell	Surveyor	American Bureau of Shipping, Aruba, D. W. I.
1917	Donald MacWhinnie	New Bedford	– –	U. S. Shipping Board, New York.
1917	Herbert W. Susmann	Dorchester	Marine surveyor	Arthur Lee & Co.
1918	William H. Fitzgerald	Medford	Assistant pier manager	F. Jarka & Co., Brooklyn.
1918	Leonard N. Caswell	Fall River	Technical adviser	American Consul, London, England.
1918	Raymond E. Saunders	W. Somerville	Superintendent	Florida Railroad & Navigation Corp.
1919	Llewellyn Roberts	Arlington	Manager	Jarka Stevedoring Co., Boston.
1919	Edmond F. Bemis	Swampscott	Commercial agent	Bureau of Foreign & Domestic Commerce, Boston.
1919	Richard R. McNulty	Gloucester	Assistant to president	Mallory Transport Lines.
1920	Francis X. Landrey	Roslindale	Wharf superintendent	Jarka Stevedoring Co. Boston.
1920	J. Francis Devlin, Jr.	Salem	Manager	Jarka Stevedoring Co., New York.
1922	Edward C. Beatson	Springfield	Assistant port captain	Williams Line, Philadelphia.
1923	William Neville	New Bedford	– –	U. S. Bureau of Fisheries, Woods Hole.
1923	Dana V. Phillips	Newton Centre	Marine superintendent.	Barber Line, Lagos. Africa.
1924	Robert S. Gale	Watertown	Cargo surveyor	Boston, Mass.

OFFICERS IN THE MERCHANT MARINE—*Continued.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1898	James H. Willey	Brighton	U.S. Steamboat inspector	New Orleans, La.
1900	James F. Rawdon	Somerville	U.S. Steamboat inspector	Providence, R. I.
1905	Frederick S. Walker	Reading	U.S. Steamboat inspector	Providence, R. I.
1911	*Charles F. Fornason	Marblehead	U.S. Steamboat inspector	Boston, Mass.
1902	Osborne E. McKay	Sagamore	Pilot	Panama Canal.
1902	*Arthur T. Luther	Swansea	Pilot	Panama Canal.
1907	*Elmer B. Small	North Truro	Pilot	Panama Canal.
1913	*Everett O. Swinson	E. Gloucester	Pilot	Panama Canal.
1916	*Byron H. Paine	New Bedford	Pilot	Panama Canal.
1917	David M. McLaren	Dedham	Pilot	Panama Canal.
1894	James E. Reardon	Boston	Captain	– –
1894	Albert L. Warner	Wollaston	Captain	– –
1894	Henry G. Carpenter	Roxbury	Captain	"C. A. Canfield."
1895	Horace W. Folger	Wilmington	Captain	Boston Pilot Boat Service.
1895	Walter J. Healey	Worcester	Captain	– –
1895	George L. P. Covell	Roxbury	Captain	– –
1895	George F. Waite	Winthrop	Captain	Atlantic Coast Pilot.
1896	Alvin W. Haynes	Somerville	Captain	"Cristobal."
1896	*William N. P. Baker	Dorchester	Captain	"Courageous."
1896	George R. Lauriat	Medford	Captain	– –
1897	H. W. G. Atkins	Reading	Captain	– –
1897	Mina Dailey	Rockport	Captain	– –
1897	*Herbert P. Smith	Nantucket	Captain	"Carplaka."
1898	Eldon G. Freeman	Whitman	Captain	Pilot, San Francisco.
1898	*Louis F. Congdon	Boston	Captain	– –
1898	*Carl E. A. Anderson	Roslindale	Captain	"Missourian."
1898	*Charles H. Kilmer	Somerville	Captain	"District of Columbia."
1899	Walter S. Lynch	Chelsea	Captain	– –
1899	Richard T. Blackford	Marblehead	Captain	– –
1900	Clarence I. Bailey	Kingston	Captain	Boston Pilot Boat Service.
1900	Alfred M. Cummings	Worcester	Captain	– –
1900	Joseph E. Gately	Marlboro	Captain	– –
1900	*James S. Howes	Woods Hole	Captain	Yacht "Seaborn."
1900	William B. Knight	Hull	Captain	"Catherine D."
1900	*E. Parker Newton	Greenfield	Captain	– –
1901	Charles D. Harrington	Boston	Captain	"Joseph R. Parrott."
1901	Robert W. Tucker	Kendal Green	Captain	"Hannawa."
1902	*A. Russell Cushing	Boston	Captain	"Elkton."
1902	*Edwin J. Madden	Everett	Captain	"Cody."
1902	*Fred C. Seibert	Greenfield	Captain	"Orinoco."
1903	*Harry M. Bostwick	Northbridge	Captain	"Sunelseco."
1903	Benjamin O'Connell	Peabody	Captain	– –
1903	Mark Woodbury	Boston	Captain	– –
1904	*Andrew J. Iverson	Beverly	Captain	"Commercial."
1904	*Edward C. Roberts	No. Beverly	Captain	"Carillo."
1905	*Harold H. Gridley	Dorchester	Captain	– –
1905	*James A. Crocker	Nahant	Captain	"William D. Rush."
1906	*George C. Bosson	Reading	Captain	– –
1907	*Frederic A. Gainard	Chelsea	Captain	Atlantic coast pilot.
1907	Frazier L. Sears	Dennis	Captain	"Shreveport."
1908	*Eugene P. Shevlin	E. Boston	Captain	"Ala."
1908	Chester B. Mellen	Quincy	Captain	– –
1908	*Ernest F. Robinson	E. Boston	Captain	Yacht "Chelsea."
1909	Harold C. Cooper	Worcester	Captain	– –
1909	William A. Sillars	Danvers	Captain	– –
1909	*Eric E. Winquist	Mattapan	Captain	Pilot, New York.
1910	*Chester E. Morris	Springfield	Captain	– –
1911	*Harold S. Dexter	Mattapoisett	Captain	– –
1911	*Henry O. K. Hanson	Neponset	Captain	– –
1911	*Raymond C. Vose	Cambridge	Captain	"West Tacook."
1911	*Wesley F. Besse	W. Somerville	Captain	"Christy Payne."
1911	*Eugene W. Miller	E. Saugus	Captain	– –
1911	Frederick J. Shaw	Winthrop	Captain	– –
1912	*Albert H. Acorn, Jr.	Malden	Captain	Yacht "Bonita III."
1912	Russell A. Eastman	Mattapoisett	Captain	– –
1912	John W. Thompson	Fairhaven	Captain	Sea Scouts, Rockland, Maine.
1913	Philip J. Fanning	Needham	Captain	– –
1913	*John A. Maddock	Swampscott	Captain	– –
1913	*Ralph W. Dearborn	Mansfield	Captain	"Kentuckian."
1913	*Oliver P. Shattuck	West Acton	Captain	– –
1913	Borden A. Tuell	Mansfield	Captain	– –
1914	John L. Kirchner	Hinsdale	Captain	– –
1914	Edward F. Murphy, Jr.	Fall River	Captain	"Florence Luckenbach."
1914	James A. Stowell	Walpole	Captain	– –
1914	David H. Swinson	E. Gloucester	Captain	"Ancon."
1915	Charles N. Bamforth	Swampscott	Captain	"Pennsylvanian."
1915	Harold F. Craven	Lawrence	Captain	– –
1915	*Charles E. Griffith	Cambridge	Captain	"Black Point."
1915	Albert V. Jones	Fall River	Captain	"Pinthis."
1915	*Leland M. Marshall	Allston	Captain	– –

OFFICERS IN THE MERCHANT MARINE—*Continued.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1915	*Herman S. Mayo	Provincetown	Captain	"Bird City."
1916	John A. Rylander	Springfield	Captain	U. S. Shipping Commissioner, San Pedro, Cal.
1916	*John T. Crowell, Jr.	Gloucester	Captain	"Radio."
1916	*William E. Lord	Swampscott	Captain	"Major Wheeler."
1917	*Frank M. Moore	Forest Hills	Captain	Boston Pilot Service.
1917	Sydney L. MacLaughlin	Lexington	Captain	Yacht "Amida."
1917	Arthur S. Phelan	Lynn	Captain	"Tuscaloosa City."
1918	Wilbur W. Woods	Provincetown	Captain	"Culberson."
1918	Leonard C. Walen	Gloucester	Captain	"Westport."
1919	Francis J. Harrington	Revere	Captain	– –
1919	Joseph W. Gosselin	Lynn	Captain	Yacht "Pronto."
1919	Harold T. Longmore	Mattapoisett	Captain	"Munleon."
1921	George J. Lavin	Melrose	Captain	"Montanan."
1921	Lawrence T. Sullivan	E. Boston	Captain	"John Tracy."
1899	George W. Stetson	Somerville	First officer	– –
1902	*Arthur P. Jensen	Provincetown	First officer	– –
1906	*Lewis B. Butler	Worcester	First officer	– –
1907	Philip B. Marcy	Brookline	First officer	– –
1911	Roy G. Whittemore	Billerica	First officer	"Kentuckian."
1912	*Joseph M. Daniel	Osterville	First officer	– –
1912	Ellenwood Folger	Siasconset	First officer	"Edward Pierce."
1912	Robert M. Gray	Melrose	First officer	"Beaconoil."
1912	Harold L. Winslow	Canton	First officer	"Republic."
1912	*Ralph E. Merithew	Haverhill	First officer	– –
1913	*Frederick L. Howland	So. Dartmouth	First officer	– –
1913	*Philip H. Waldron	Leominster	First officer	– –
1913	Richard H. White	Cambridge	First officer	– –
1913	*Waldon A. McIntire	E. Gloucester	First officer	– –
1913	*Wilfred H. Senior	Dorchester	First officer	"Turmore."
1914	*Samuel J. Lee	Malden	First officer	"Wilscox."
1914	Nelson T. Nutter	Newburyport	First officer	"Standard."
1914	Ten Eyck H. Reed	Melrose	First officer	– –
1914	*Samuel A. Gates	Malden	First officer	"Oregonian."
1915	*William C. Davenport	New Bedford	First officer	"Minnekahda."
1915	*Arthur A. Hovgaard	Brookline	First officer	– –
1915	Ronald B. Ford	Lawrence	First officer	– –
1916	Harold R. Congdon	Somerville	First officer	– –
1916	*Peter J. Jakmauh	So. Boston	First officer	– –
1916	Paul H. Browne	West Roxbury	First officer	"Atlas."
1916	*Edwin T. Fletcher	Springfield	First officer	– –
1916	Thomas B. Lufkin	Gloucester	First officer	– –
1917	Alton E. Borden	Fall River	First officer	Yacht "Amida."
1917	Ivan Freeman	E. Orleans	First officer	– –
1917	Arthur H. Rowe	Roslindale	First officer	"Gulferest."
1918	Raphael W. Hill	Provincetown	First officer	"Agwihavre."
1918	Jacob I. Popkin	Malden	First officer	– –
1918	George R. Stockbridge	Wellesley	First officer	"Panoil."
1919	John W. Donahoe	Dorchester	First officer	"Transportation."
1919	Ernest B. Waters	Nahant	First officer	"La Perla."
1920	Erwin F. Colburn	Somerville	First officer	"Pastores."
1920	Mortimer K. O'Sullivan	W. Medford	First officer	"East Indian."
1920	*David F. Atwood	W. Falmouth	First officer	"Tucson."
1920	Francis E. Donnelly	Roslindale	First officer	"Oakey L. Alexander."
1920	George P. Lord, Jr.	Salem	First officer	– –
1921	Charles G. Foster	Dennis	First officer	"Columbian."
1921	Alphonsus J. Godfrey	Roxbury	First officer	"Hall."
1921	George A. Perkins	No. Carver	First officer	"M. & J. Tracy."
1921	J. Blaisdell Wells	Medford	First officer	"Texan."
1922	Arthur O. Brady	Rockland	First officer	"Minnesotan."
1922	Carroll P. Burgess	Plymouth	First officer	"Swiftsure."
1922	Vincent F. J. Hancock	Fall River	First officer	– –
1922	Kenneth C. Mayo	Provincetown	First officer	"Radio."
1922	Malcolm O. Sillars	Danvers	First officer	"Pioneer."
1922	Webster G. Farrell	Dorchester	First officer	"Limon."
1922	Robert M. Pierce	Rockport	First officer	"Virginian."
1922	Scranton H. Redfield	Lynn	First officer	"President William Howard Taft."
1923	Gerald P. Coleman	Melrose	First officer	"Archer."
1923	William T. Corfield	Roxbury	First officer	"Newton."
1923	Paul R. Jones	Gloucester	First officer	"Ohioan."
1923	Duncan S. Baker	Manchester	First officer	"Alaskan."
1923	Edson B. Cates	Winthrop	First officer	"Kansan."
1923	Roy W. Chamberlain	Lynn	First officer	"President Adams."
1923	Richard E. Pendleton	Bryantville	First officer	"Santa Maria."
1923	John E. Wade	Amesbury	First officer	"West Selene."
1924	Joseph H. Masse	Everett	First officer	"Georgian."
1924	Arthur J. Walsh	Watertown	First officer	"Orinoco."
1924	Sydney Blackledge	Pottersville	First officer	"Exminster."
1925	Arthur J. Carnes	Malden	First officer	"Albatross," Bureau of Fisheries.
1925	Malcolm E. Crossman	Taunton	First officer	"W. S. Miller."

OFFICERS IN THE MERCHANT MARINE—*Continued.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1925	James F. Donovan	Methuen	First officer	"Swiftwind."
1925	Paul L. Litchfield	Lowell	First officer	– –
1925	Douglas MacMaster	Cambridge	First officer	"T. A. D. Jones."
1925	James E. Walsh	Watertown	First officer	"Munargo."
1926	Elwyn W. Hersey	No. Weymouth	First officer	"Cumberland."
1894	Alfred J. O'Leary	Worcester	Second officer	– –
1900	Walter Andrew	Jamaica Plain	Second officer	– –
1902	*George Castle	Lynn	Second officer	– –
1904	Leslie F. Holmes	E. Whitman	Second officer	– –
1906	John Ruyter	Stoughton	Second officer	– –
1907	Herbert Garity	Boston	Second officer	– –
1910	Franklin K. Tyler	Beachmont	Second officer	– –
1913	John W. Crocker	Nahant	Second officer	– –
1913	James A. MacCabe	Osterville	Second officer	– –
1914	*William H. Fogarty	Dorchester	Second officer	– –
1914	F. Palmer Harrington	Malden	Second officer	– –
1915	*Russell C. Damon	Hingham	Second officer	– –
1915	*Curtis C. Fales	Westboro	Second officer	– –
1915	George T. Horan	Dorchester	Second officer	"Steel Traveler."
1916	*J. Prescott Mahoney	W. Wareham	Second officer	"Tuscaloosa City."
1916	*Richard H. Dunphe	Brockton	Second officer	"West Selene."
1916	Clifford E. Stanley	Salem	Second officer	– –
1917	*Percy A. Crosbie	Everett	Second officer	– –
1917	Luther C. Kingsbury	Wellesley	Second officer	"Evangeline."
1918	James J. Crowley	No. Abington	Second officer	– –
1918	Edgar G. Glines	Beverly	Second officer	"Watertown."
1918	James H. Lowry	Stoughton	Second officer	"Saccarappa."
1918	James E. Fraser	Boston	Second officer	"City of Rayville."
1918	Arthur B. Gibbs	Vineyard Haven	Second officer	– –
1918	James R. Moore	E. Lexington	Second officer	– –
1919	Charles F. Bossom	W. Medford	Second officer	– –
1919	Harry C. Lord	Quincy	Second officer	"Halo."
1919	Robert S. O'Brion	Malden	Second officer	– –
1919	Sherman W. Reed	Lexington	Second officer	"Leviathan."
1919	Charles E. Gilman	Somerville	Second officer	– –
1919	John J. Mahoney	Revere	Second officer	– –
1919	Alfred A. Needham	Manchester	Second officer	– –
1919	Richard F. Nickerson	So. Duxbury	Second officer	– –
1920	*Oswald J. Griffin	Fall River	Second officer	"Saco."
1920	*Laurence R. Jacques	Springfield	Second officer	"Atlantic City."
1920	*Fred C. B. Steinmetz	Springfield	Second officer	"Steel Seafarer."
1921	George Barkley	Springfield	Second officer	"K. R. Kingsbury."
1921	Roger J. O'Sullivan	W. Medford	Second officer	"Oneida."
1921	Edward F. Sise	W. Medford	Second officer	"Santa Teresa."
1922	Herbert A. Beaumont	Dorchester	Second officer	– –
1922	William C. Mahoney	Somerville	Second officer	"W. C. Teagle."
1922	Edwin S. Baker	Manchester	Second officer	– –
1922	John B. Crosby	Eastham	Second officer	– –
1922	Everett A. Rhodes	Worcester	Second officer	"Southern Cross."
1923	George J. Andrews	Boston	Second officer	"Paul H. Harwood."
1923	George R. Hickey	Rockland	Second officer	"Hog Island."
1923	Maurice L. Whelan	Whitman	Second officer	"Nebraskan."
1923	J. Edward Handran	Pigeon Cove	Second officer	"Silverspruce."
1923	Leman N. Wright	No. Abington	Second officer	"Steel Engineer."
1924	Edward B. Ellis	Walpole	Second officer	"Blue Triangle."
1924	Ralph E. Jernberg	Worcester	Second officer	"Knoxville City."
1924	Robert H. Murphy	Barnstable	Second officer	"Missourian."
1925	Frank S. Dowd	Fall River	Second officer	"Metapan."
1925	Harvey J. Reynolds, Jr.	Duxbury	Second officer	"Charcas,"
1925	John P. Binney	Milford	Second officer	"Mundelta."
1925	Thomas A. Jacobs	Amesbury	Second officer	"Manhattan Island."
1925	Winslow M. Rouse	Roxbury	Second officer	"Fairfield City."
1925	Joseph A. Scully	Rockland	Second officer	"Mevania."
1926	Wendell G. Ames	Melrose	Second officer	"George H. Jones."
1926	Harold A. Weston	Salem	Second officer	– –
1926	Earle B. Vaux	East Lynn	Second officer	"Missourian."
1926	William A. Bradford, Jr.	Saugus	Second officer	"Stanley."
1926	John H. Francis	Avon	Second officer	"Excello."
1926	A. William Fallis	Atlantic	Second officer	"Exporter."
1926	George F. Hudson	Roslindale	Second officer	"City of Panama."
1927	John W. Sabine	Auburn	Second officer	"Santa Rita."
1928	W. Nathaniel Davis	Arlington	Second officer	"Cherokee."
1894	Edward A. Mock	Jamaica Plain	Third officer	– –
1906	Walter H. Crafts	Boston	Third officer	– –
1912	Francis J. McGowan	Somerville	Third officer	– –
1913	Charles Crane	Winthrop	Third officer	– –
1915	Earle D. Hammond	E. Mattapoisett	Third officer	"Katrina Luckenbach."
1917	Charles F. Huffman	W. Somerville	Third officer	– –
1918	Ira D. Dean	So. Natick	Third officer	– –
1918	William S. Reagh	Wakefield	Third officer	"President Munroe."
1918	Gerald K. Sanborn	Lawrence	Third officer	– –
1919	Jack A. Fraser	Lowell	Third officer	– –
1919	*Harold B Wilkinson	Lynn	Third officer	– –

OFFICERS IN THE MERCHANT MARINE—*Concluded.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1919	Walter W. Jenness	Malden	Third officer	"City of Birmingham."
1919	William B. Studley, Jr.	Fairhaven	Third officer	"Manchuria."
1920	Theodore Collins	Milton	Third officer	– –
1920	Daniel J. Coughlin	Lowell	Third officer	– –
1920	*Fred M. Full, Jr.	Rockport	Third officer	– –
1920	John F. Hannan	Mattapan	Third officer	– –
1920	*Noble M. Hartley	W. Medford	Third officer	– –
1920	*Richard B. Taylor	W. Somerville	Third officer	– –
1920	Charles R. Clark	Lynn	Third officer	– –
1921	Philip W. Atkinson	Fitchburg	Third officer	– –
1921	J. Lyttleton Strong	Melrose	Third officer	– –
1922	John F. Mulvey	Roslindale	Third officer	"West Calumb."
1922	Ernest D. Murray	Everett	Third officer	"President Madison."
1922	George W. Worth	Cambridge	Third officer	– –
1923	Charles E. Brown	Eastham	Third officer	"Harry Luckenbach."
1924	William N. Baker	Quincy	Third officer	– –
1924	John F. Doyle	So. Hadley	Third officer	"Mobile City."
1925	Henry A. Lee	Beachmont	Third officer	"Cornucopia."
1925	Edward C. Pilote	Whitman	Third officer	"La Perla."
1925	Henry K. Bradford	Saugus	Third officer	"West Honaker."
1925	Stephen T. Gill	No. Eastham	Third officer	"Andrew Luckenbach."
1925	Harold M. Mann	Boston	Third officer	"Nile."
1926	Charles T. Conroy	Vineyard Haven	Third officer	– –
1926	Paul G. Hirst	Amesbury	Third officer	"Halsey."
1926	Nicholas D. Scully, Jr.	Dorchester	Third officer	– –
1926	Josiah B. Dunlap	Kingston	Third officer	– –
1926	H. Joseph Hassett	Fitchburg	Third officer	– –
1926	Ernest A. M. Lewerenz	Roxbury	Third officer	"Bristol."
1926	Frank E. Wirtanen	W. Barnstable	Third officer	"James McGee."
1927	Robert H. Davis	Somerville	Third officer	"Oakpark."
1927	Prescott L. Dixon	Beverly	Third officer	"Missourian."
1927	Kenneth E. Doolan	Athol	Third officer	"Christy Payne."
1927	Ernest K. Edie, Jr.	Wollaston	Third officer	"San Pablo."
1927	Aylmer R. Hatch	Ware	Third officer	"Santa Cruz."
1927	William E. Porter	Lynn	Third officer	"J. A. Moffet, Jr."
1927	Donald A. Preble	Braintree	Third officer	"Munargo."
1927	Christian Simonsen, Jr.	Jamaica Plain	Third officer	"La Perla."
1927	Charles Thistle	Swampscott	Third officer	"Suscolanco."
1927	Albert B. Wells	Melrose	Third officer	– –
1927	Raymond W. Curtis	Taunton	Third officer	"Pennsylvanian."
1927	Howard F. Lane	Forest Hills	Third officer	"Oldham."
1927	William F. Nelson	Brockton	Third officer	"Virginian."
1927	Theodore P. Quandt	Somerville	Third officer	– –
1927	R. Allen S. Ryder	Chatham	Third officer	"Beaconlight."
1927	Donald B. Williams	Worcester	Third officer	– –
1927	H. Bancroft Wilder, Jr.	Newton	Third officer	"Exchester."
1928	Raymond C. Kidd	Melrose	Third officer	"Brookdale."
1928	Milton Breece	Gardner	Third officer	– –
1928	Charles E. Mabee	Abington	Third officer	"Excelsior."
1928	William W. MacKenzie	West Roxbury	Third officer	"Excello."
1928	Clifton V. Parker	Chilmark	Third officer	"Virginian."
1928	Laurence T. Sidelinker	Wilmington	Third officer	"Illyria."
1928	Vitty C. Bulwich	Worcester	Third officer	"Tuscaloosa City."
1928	Maurice F. Dinneen	Malden	Third officer	"West Selene."
1928	Morgan J. Finucane	Fall River	Third officer	"Swiftlight."
1928	William F. Goldsmith	Jamaica Plain	Third officer	"Sagamore."
1928	William H. Haywood	Boston	Third officer	– –
1928	Lawrence N. Holmes	Malden	Third officer	MS. "Ward."
1928	William A. Musculus	Roslindale	Third officer	– –
1928	John H. Patch	Beverly	Third officer	"Zacapa."
1928	Muret C. Redman	Waban	Third officer	"Hawaiian."
1928	George R. Tabrah	E. Dedham	Third officer	– –
1928	Howard A. Thayer	Chelmsford	Third officer	"Panaman."
1929	Weston T. Healy	Fall River	Third officer	"Black Point."
1929	Hugh O. Magarian	Lynn	Third officer	"Texan."
1929	Allen M. Moyer	Allston	Third officer	– –
1929	Louis A. Woodland, Jr.	Fall River	Third officer	"Santa Barbara."
1920	William S. Tyrrell	Cambridge	Fourth officer	"President Munroe."
1921	Raymond A. Cousins	Lynn	Fourth officer	– –
1922	Otto W. Johnson	Dorchester	Fourth officer	– –
1922	Hosea T. Pierce	Rockport	Fourth officer	– –
1924	William H. Jacobs	Gloucester	Fourth officer	"Southern Cross."
1925	Leroy N. Andrew	Lynn	Fourth officer	"Kentuckian."
1927	Alfred W. Bramer	Brighton	Fourth officer	"William Penn."
1928	Clark D. Doran	Fairhaven	Fourth officer	"Kansan."
1928	Earl M. Swan	Beverly	Fourth officer	"San Bruno."
1929	Henry W. Daniels	W. Medway	Fourth officer	"K. I. Luckenbach."
1929	John J. O'Connor	Wollaston	Fourth officer	"American Legion."
1929	Roger K. Smith	Brookline	Fourth officer	"Santa Elisa."
1929	Frank B. Tymosko	Worcester	Fourth officer	"Leviathan."

Engineer Graduates.

Year.	Name.	Residence.	Position.	Vessel or Service.
1895	Michael D. Sullivan	Worcester	Chief engineer	– –
1896	*James H. B. Meehan	Lowell	Chief engineer	– –
1898	William E. Ballsdon	Neponset	Chief engineer	– –
1898	Frank P. Killion	Malden	Chief engineer	"Kilauea."
1898	*Everett S. Ransom	E. Mattapoisett	Chief engineer	Yacht "Siele."
1898	Charles Walter, Jr.	New Bedford	Chief engineer	"Oakwood."
1898	*John C. Ganser	Jamaica Plain	Chief engineer	– –
1898	Wilbur S. Lamont	Leominster	Chief engineer	– –
1898	Charles E. Perry, Jr.	Hyde Park	Chief engineer	"Bibbco."
1900	Elmer P. Butterworth	Foxboro	Chief engineer	"Gulfking."
1900	William Glover	Wilmington	Chief engineer	"Yarmouth."
1900	Leslie M. Malloch	Everett	Chief engineer	– –
1901	David W. Warren	Everett	Chief engineer	"Evangeline."
1901	*Eugene I. K. Murphy	Worcester	Chief engineer	– –
1902	Daniel F. Butler	Waltham	Chief engineer	– –
1902	Martin J. Whalen	Peabody	Chief engineer	"Illinois."
1903	James S. McGarry	Shrewsbury	Chief engineer	– –
1903	*Edmund E. Powers	Cambridge	Chief engineer	– –
1904	Charles R. Brown, Jr.	Dorchester	Chief engineer	"Eldena."
1904	*Cecil L. McIntyre	Spencer	Chief engineer	– –
1905	*Fred G. Carlton	Maynard	Chief engineer	– –
1906	*Augustus C. Caldwell	Dorchester	Chief engineer	– –
1906	*Arthur G. Burbank	Carver	Chief engineer	– –
1906	Bradford N. A. Gladding	New Bedford	Chief engineer	– –
1907	*Samuel F. Osgood	Middleboro	Chief engineer	– –
1908	*Thomas B. Pellett	Worcester	Chief engineer	– –
1909	*Everett B. Ward	Lynn	Chief engineer	– –
1909	*Leo A. Keating	Natick	Chief engineer	"F. J. Luckenbach."
1909	Fritz T. Kebler	Rochdale	Chief engineer	– –
1909	*Samuel J. Miller	Fall River	Chief engineer	"Lehigh."
1909	*William A. Sullivan	East Boston	Chief engineer	– –
1910	Leslie S. Badger	Roxbury	Chief engineer	"Saccarappa."
1910	R. Wilbur Anderson	Mattapan	Chief engineer	– –
1910	George W. Sibley	Worcester	Chief engineer	– –
1911	*Robert F. Phinney	Mattapan	Chief engineer	"Westbrook."
1911	John P. Lundergan	Brockton	Chief engineer	"Edward Luckenbach."
1911	Harvey M. Thorndike	Cliftondale	Chief engineer	– –
1912	*Richard J. Cavanaugh	New Bedford	Chief engineer	"Agwipond."
1912	Richard K. O'Connell	No. Easton	Chief engineer	"Catahoula."
1914	Joseph L. Concannon	Melrose	Chief engineer	– –
1915	*Philip J. Durney	Gloucester	Chief engineer	– –
1919	Warren L. Bailey, Jr.	Worcester	Chief engineer	– –
1921	Albert I. Pilkington	Mansfield	Chief engineer	"R. E. Hopkins."
1922	John D. Bosler	Brookline	Chief engineer	Yacht "Amida."
1922	Lawrence E. Dorgan	Brockton	Chief engineer	"George H. Jones."
1924	Edmond P. Martin	Lynn	Chief engineer	– –
1894	Herbert F. Bordman	Charlestown	First asst. engineer	– –
1897	Augustus T. Holmes	Ipswich	First asst. engineer	– –
1900	Earle P. Marshall	No. Easton	First asst. engineer	– –
1902	Augustus W. Hart	North Truro	First asst. engineer	– –
1904	*Benjamin L. Welch	Salem	First asst. engineer	– –
1904	Edward J. Chadbourne	Reading	First asst. engineer	– –
1907	*Joseph R. Wier	Saundersville	First asst. engineer	– –
1907	*Archie E. Bragg	New Bedford	First asst. engineer	– –
1910	Harold C. Grover	Stoneham	First asst. engineer	– –
1912	Daniel G. Buckley	Gloucester	First asst. engineer	– –
1913	Russell A. McLay	Lawrence	First asst. engineer	– –
1914	Benjamin H. Allen, Jr.	Lawrence	First asst. engineer	– –
1914	*John L. Harding	Taunton	First asst. engineer	"Explorer."
1914	Leslie T. Severance	Cambridge	First asst. engineer	– –
1914	Charles P. Tucker	Boston	First asst. engineer	– –
1914	*Arthur C. Goodwin	Somerville	First asst. engineer	"Evangeline."
1915	Stanislaus P. J. Ciolkosz	Taunton	First asst. engineer	"Deuel."
1915	*Roy C. Hartwell	Boston	First asst. engineer	– –
1915	Arthur F. Higgins	Lawrence	First asst. engineer	"Lake Elmwood."
1915	John F. Houston, Jr.	Jamaica Plain	First asst. engineer	– –
1916	*Paul Gorman	Marlboro	First asst. engineer	– –
1916	George E. Harrington	Worcester	First asst. engineer	– –
1916	*Alexander J. Phillips	Easton	First asst. engineer	– –
1916	*John E. Pilkington	Mansfield	First asst. engineer	"Hoven."
1917	*Ernest C. Jensen	Provincetown	First asst. engineer	– –
1918	Raymond H. Sample	Montello	First asst. engineer	– –
1919	John D. Cunningham	Quincy	First asst. engineer	– –
1919	Loran H. Sanford	Beverly	First asst. engineer	– –
1919	Edward H. Morin	Stoneham	First asst. engineer	– –
1919	Roger N. Walcott	Concord	First asst. engineer	– –
1920	John D. Young	Winthrop	First asst. engineer	"President Adams."
1921	Frederick L. Murphy	West Roxbury	First asst. engineer	– –
1921	Gerald D. Murphy	Brockton	First asst. engineer	"Julia Luckenbach."
1922	Lloyd M. Johnson	Brighton	First asst. engineer	– –
1923	Walter C. Bathelt	Holyoke	First asst. engineer	"La Perla."
1923	Arthur F. Cole	W. Lynn	First asst. engineer	"Eastern Crown."

ENGINEER GRADUATES—*Continued.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1923	Edmund M. Hourigan	Dorchester	First asst. engineer	– –
1923	Walter J. Murphy	Roxbury	First asst. engineer	– –
1924	Daniel C. Seed	Adams	First asst. engineer	"Albatross," Bureau of Fisheries.
1925	Joseph W. MacDiarmid	Mansfield	First asst. engineer	"Steel Inventor."
1896	John O. Sargent	Worcester	Second asst. engineer	– –
1904	*William A. Danforth	Dorchester	Second asst. engineer	– –
1906	Victor M. Foster	E. Boston	Second asst. engineer	– –
1910	William Bowen	Boston	Second asst. engineer	– –
1911	David J. Fulton	Wollaston	Second asst. engineer	– –
1911	George L. Lockhart	Wakefield	Second asst. engineer	– –
1912	George R. Davison	Springfield	Second asst. engineer	– –
1912	Louis H. Racicot	Lowell	Second asst. engineer	"Willbabco."
1913	*Charles J. Balboni	New Bedford	Second asst. engineer	"Bessemer."
1913	Edward J. Fogarty	E. Boston	Second asst. engineer	– –
1917	*Arthur D. Murphy	Beverly	Second asst. engineer	– –
1918	Francis J. Easton	Randolph	Second asst. engineer	– –
1918	Louis H. Johnson	Andover	Second asst. engineer	– –
1918	Elmer J. Kelley	W. Springfield	Second asst. engineer	– –
1918	LeRoy B. Lowey	Woods Hole	Second asst. engineer	– –
1919	Frank J. Couble	Brockton	Second asst. engineer	– –
1919	Thomas F. Cotter	Lawrence	Second asst. engineer	– –
1920	John L. Flanagan	Lawrence	Second asst. engineer	"Imlay."
1923	Elmer H. Bridge	Fall River	Second asst. engineer	– –
1922	George M. Walker	Lowell	Second asst. engineer	"Mundelta."
1923	Thomas F. Fairbrother	N. Billerica	Second asst. engineer	"Westport."
1923	John A. Hey	Lawrence	Second asst. engineer	"Jeannette Skinner."
1924	Paul W. Anderson	N. Easton	Second asst. engineer	"William N. Page."
1924	James A. MacDonald	Tewksbury	Second asst. engineer	"I. C. White."
1925	Richard G. Aaron	Allston	Second asst. engineer	"Floridian."
1925	Adelbert H. Smith	Dracut	Second asst. engineer	"Wilton."
1925	Paul W. Fellows	Reading	Second asst. engineer	"Hub Traveler."
1925	Acer N. Hilbourne	Cliftondale	Second asst. engineer	– –
1925	Folke C. Johnson	No. Easton	Second asst. engineer	"Munargo."
1925	John G. Moore	Roxbury	Second asst. engineer	"Corson."
1925	John J. Woodlock	Mansfield	Second asst. engineer	"David McKelvy."
1926	Boyd Dunbar	Hyde Park	Second asst. engineer	"San Mateo."
1926	Thomas E. O'Donovan	Dorchester	Second asst. engineer	"Hampden."
1926	Elwin A. Pilkington	Mansfield	Second asst. engineer	"Robin Hood."
1926	Harry L. Young	Attleboro	Second asst. engineer	"Swiftscout."
1926	Frederick D. Hoitt	W. Somerville	Second asst. engineer	"Beaconhill."
1926	Herbert Hooper	Springfield	Second asst. engineer	– –
1927	W. Duncan Brimner	E. Walpole	Second asst. engineer	"Penobscot."
1927	Edward F. Jaeger	Mattapan	Second asst. engineer	"Minnesotan."
1928	James E. Saviski	Brockton	Second asst. engineer	"Swiftscout."
1904	Thomas F. Gosnay	Wakefield	Third asst. engineer	– –
1911	Walter P. Lynn	Beverly	Third asst. engineer	– –
1913	*Nils J. Peterson	Brockton	Third asst. engineer	– –
1917	Dwight W. Boyd	Randolph	Third asst. engineer	"Dixiano."
1917	Philip H. Little	Holbrook	Third asst. engineer	– –
1918	John R. Carden	Haverhill	Third asst. engineer	– –
1918	Ralph A. Evers	Somerville	Third asst. engineer	– –
1918	Karl W. Newman	Brockton	Third asst. engineer	– –
1919	James F. Beatty	Lowell	Third asst. engineer	– –
1919	George C. Clements	Lynn	Third asst. engineer	– –
1920	Earle F. Clegg	Worcester	Third asst. engineer	– –
1920	*Joseph H. Donahue	Lawrence	Third asst. engineer	– –
1920	Chesley L. Kenyon	Huntington	Third asst. engineer	– –
1920	James N. Oldroyd	Lynn	Third asst. engineer	– –
1920	Ralph B. Warner	Marlboro	Third asst. engineer	– –
1920	Lorenzo C. Brown	Everett	Third asst. engineer	– –
1922	W. Ernest Geddes	Attleboro	Third asst. engineer	"West Kedron."
1922	Frederic W. Mahoney	Somerville	Third asst. engineer	"Leviathan."
1923	Augustin P. Heffron	Marlboro	Third asst. engineer	– –
1923	Lorenzo H. Smith	So. Weymouth	Third asst. engineer	"Boston."
1924	Aubrey C. Allen	Marlboro	Third asst. engineer	– –
1924	Ellery H. Capen	New Bedford	Third asst. engineer	"Bogota."
1924	Horton D. Gould	Amesbury	Third asst. engineer	"Golden Coast."
1924	Ralph L. Langille	So. Boston	Third asst. engineer	"New York."
1924	Edwin S. Evans	Paxton	Third asst. engineer	"Virginian."
1924	H. Carleton Gifford, Jr.	No. Easton	Third asst. engineer	"Nattaro."
1924	Norman S. Gilchrist	Chatham	Third asst. engineer	"Missourian."
1925	Harold W. Bradbury	Cliftondale	Third asst. engineer	"Beaconlight."
1925	Sidney P. Dunn	Gloucester	Third asst. engineer	– –
1925	William R. Fallon	Dorchester	Third asst. engineer	"Leviathan."
1925	John E. Reagan	Fall River	Third asst. engineer	"Middlesex."
1925	Rupert K. Stewart	Melrose	Third asst. engineer	– –
1925	John E. Nee	Concord	Third asst. engineer	"Metapan."
1926	William A. Halliden	Wollaston	Third asst. engineer	"Wilscox."
1926	John F. Harty	Charlestown	Third asst. engineer	"Esparta."
1926	Marshall W. Jones	Cambridge	Third asst. engineer	– –
1926	Paul F. Hackett	Fall River	Third asst. engineer	– –
1926	John B. Ashton	Millbury	Third asst. engineer	– –

Engineer Graduates—*Concluded.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1926	Charles E. L. Kimball	Quincy	Third asst. engineer	"Carrillo."
1926	Albert A. Corkhill	Methuen	Third asst. engineer	"Yorba Linda."
1926	George J. Preston	Weymouth	Third asst. engineer	"Orient."
1926	Lloyd K. Reed	Shrewsbury	Third asst. engineer	"Westpool."
1926	Laurence M. Breece	Gardner	Third asst. engineer	"Beaconhill."
1927	Maurice J.A. Belhumeur	Boston	Third asst. engineer	"Beaconoil."
1927	P. Edwin MacDiarmid.	Mansfield	Third asst. engineer	"Walter D. Munson."
1927	James A. McCulloch	Lee	Third asst. engineer	– –
1927	Stephen F. Norvish	Brockton	Third asst. engineer	"Swiftlight."
1927	John Proctor	New Bedford	Third asst. engineer	"Zacapa."
1927	Charles O. Redmond, Jr.	Lynn	Third asst. engineer	"Fred W. Weller."
1927	Frederick E. Steele	Malden	Third asst. engineer	"Carrillo."
1927	Clifford H. Carlson	W. Bridgewater	Third asst. engineer	– –
1927	John B. McAuliffe	So. Boston	Third asst. engineer	"San Bruno."
1927	F. Raymond Zeller	Whitman	Third asst. engineer	"Raleigh Warner."
1928	Jacob Rudis	Worcester	Third asst. engineer	– –
1928	Frederick D. Browning.	New Bedford	Third asst. engineer	"Norfolk."
1928	Elliott S. Bunker.	So. Lincoln	Third asst. engineer	"Oritani."
1928	Frederick W. Craig	Salem	Third asst. engineer	"Munmotor."
1928	Irving O. Johnson	E. Lynn	Third asst. engineer	– –
1928	Patrick J. Schofield	So. Boston	Third asst. engineer	– –
1928	James A. Whetton	Needham	Third asst. engineer	'Ohioan."
1928	George H. Barnes, Jr.	Marshfield	Third asst. engineer	"'Calamares."
1928	Edgar W. Clough	Campello	Third asst. engineer	"Corapeak."
1929	Walter J. Buckley	Cambridge	Third asst. engineer	"Melrose."
1929	Walter C. Stone	Scituate	Third asst. engineer	"Peter H. Crowell."
1929	Leroy S. Colby, Jr.	Lawrence	Third asst. engineer	"William J. Hanna."
1929	Donald P. Dana	Boston	Third asst. engineer	– –
1929	John L. Fay	Dedham	Third asst. engineer	"Mayari."
1929	Francis M. Hannigan	Newton Centre	Third asst. engineer	"San Bruno."
1929	Peter MacCurrach	Hamilton	Third asst. engineer	"El Dia."
1929	George H. Kinsman	Jamaica Plain	Third asst. engineer	"Lake Benbow."
1929	Robert E McIntosh	Haverhill	Third asst. engineer	"Bridgeton."
1929	William J. Otto, Jr.	Roslindale	Third asst. engineer	– –
1929	A. Franklin Loring	Concord	Third asst. engineer	"Fairfax."
1929	Paul R. Pearce	Holyoke	Third asst. engineer	"Defiance."
1929	Joseph H. Seaver, Jr.	Newton	Third asst. engineer	"Beaconhill."
1929	Gilbert F. Endicott	Shrewsbury	Third asst. engineer	"Arizonan."
1924	William J. Moran	Millis	Fourth asst. engineer	– –
1926	Clyde R. Coburn.	Hyde Park	Fourth asst. engineer	"K. I. Luckenbach."
1926	Edward R. Coyle	Taunton	Fourth asst. engineer	"Siboney."
1927	Gilbert L. Allen	Attleboro	Fourth asst. engineer	"Leviathan."
1927	Milburn G. Boys	Holyoke	Fourth asst. engineer	– –
1928	Erle M. Brizard	Chicopee	Fourth asst. engineer	"Dixie."
1928	Mario L. Guidette	Springfield	Fourth asst. engineer	"Pan America."
1928	Albert C. Hodson	Reading	Fourth asst. engineer	"Yarmouth."
1929	James H. Hill	Wollaston	Fourth asst. engineer	"San Gil."
1929	James A. Frew	Quincy	Special employment	General Electric Co.
1929	T. Gerard Hoyle	Quincy	Special employment	General Electric Co.
1923	Frederick N. Dodd	E. Lynn	Electrician	"Rossell."

Instructors.

1912	*Norman E. Merrill	Melrose	Executive officer	U. S. S. "Nantucket."
1909	*Ervin L. Kelley	Dorchester	Chief engineer	U. S. S. "Nantucket."
1917	William W. Storey	Jamaica Plain	Navigator	U. S. S. "Nantucket."
1926	Norman L. Queen	Needham	Assistant engineer	U. S. S. "Nantucket."
1926	Richard T. Rounds	Billerica	Watch officer	U. S. S. "Nantucket."

United States Navy.

1906	*Howard G. Copeland	Malden	Captain, U. S. N. R.	– –
1907	Thomas Baxter	So. Dennis	Lieutenant commander	Board of Inspection and Survey, San Francisco, Cal.
1898	Clarence E. Wood	Fall River	Lieutenant commander	(Ret.)
1898	Herbert E. Fish	Mattapoisett	Lieutenant	Navy Yard, Puget Sound, Wash.
1902	John F. Murphy	Worcester	Lieutenant	U. S. Naval Academy.
1906	William R. Dolan	Worcester	Lieutenant	U. S. S. "Camden."
1910	Russell H. Sullivan	Westfield	Lieutenant (s. c.)	U. S. S. "Gold Star."
1916	Darrough S. Gurney	Marion	Lieutenant	U. S. S. S-36.
1917	Philip G. Nichols	Peabody	Lieutenant	U. S. S. O-7.
1907	Frederick M. Coughlan	No. Dartmouth	Lieutenant	(Ret.)
1922	Eliot Olsen	E. Milton	Ensign	New London, Conn.
1928	Richard G. Copeland	Malden	Midshipman	U. S. Naval Academy.
1899	Leroy Neil	Lynn	Chief machinist	U. S. S. "Robin."
1915	Frank L. Nimmo.	Cambridge	Chief machinist mate	U. S. S. "Detroit."

United States Navy—*Concluded.*

Year.	Name.	Residence.	Position.	Vessel or Service.
1909	Frederick H. H. Sylvia	Nantucket	Chief pay clerk	Naval Air Station, Hampton Roads, Va.
1911	James D. Turnbull	Bridgewater	Chief pay clerk	U. S. S. "Nitro."

United States Marine Corps.

1903	Leander A. Clapp	Brockton	Major	Headquarters, Washington.
1906	Clarence E. Nutting	Cambridge	Major	Parris Island, S. C.

The United States Lighthouse Service.

1895	George E. Eaton	Woods Hole	Superintendent	Second Lighthouse District, Boston.
1904	John F. Williamson	Brockton	Captain	U. S. L. H. T. "Speedwell."
1905	Harry W. Maynard	Winthrop	Captain	U. S. L. H. T. "Hyacinth."
1907	*William M. Gifford	Boston	First officer	U. S. L. H. T. "Anemone."
1924	Lawrence W. Croteau	Manchester	Second officer	U. S. L. H. T. "Lotus."
1926	John S. Loring	Shrewsbury	Second officer	U. S. L. H. T. "Shrub."
1928	John T. Barrett, Jr.	Revere	Third officer	U. S. L. H. T. "Favorite."

United States Coast Guard Service.

1895	Philip W. Lauriat	Medford	Captain	Chief of Staff, New York.
1895	Lorenzo C. Farwell	Dorchester	Commander	"Champlain."
1899	James A. Alger	Reading	Commander	Base 5, East Boston.
1906	William F. Towle	Boston	Commander	New York.
1896	Webb C. Maglathlin	Bridgewater	Lieutenant commander	"Northland."
1897	Albert F. Patterson	Townsend	Lieutenant commander	"Haida."
1906	Henry C. Roach	New Bedford	Lieutenant commander	Stapleton, N. Y.
1913	Frank H. Nelson	Taunton	Lieutenant	"Fanning."
1906	*Charles C. Plummer	Mansfield	Lieutenant (j. g.)	"Jouett."
1919	*Gordon A. Littlefield	Cambridge	Lieutenant (j. g.)	Boston.
1919	Paul E. Purdy	Everett	Lieutenant (j. g.)	"Manning."
1919	Arthur G. Morrill	Melrose	Lieutenant (j. g.)	"Wilkes."
1919	Harry C. Howe	Stoneham	Lieutenant (j. g.)	Base 5, East Boston.
1922	Angus S. MacIntyre	Provincetown	Lieutenant (j. g.)	Woods Hole.
1923	Julius F. Jacot	Beachmont	Lieutenant (j. g.)	"Champlain."
1920	Charles H. Bartlett	Roslindale	Ensign	"Burrows."
1924	J. William Malen	Gloucester	Ensign	"Wainwright."
1925	Richard L. Horne	Gloucester	Ensign	"Tampa."
1925	George W. Nelson	Brockton	Ensign	"Conyngham."
1925	Stanley F. Piekos	Salem	Ensign	"Wainwright."
1912	Kenneth E. Cahoon	W. Tisbury	Boatswain	"Apache."
1914	Richard S. Tewksbury	Winthrop	Boatswain	C. G. 130, Base 15.
1916	Randall F. Elder	Brighton	Boatswain	Base 5.
1917	Russell W. Thresher	Southbridge	Boatswain	"Gen. Greene."
1917	Ernest V. Wyatt	W. Medford	Boatswain	"Tampa."
1918	Almer T. Hovland	Newtonville	Boatswain	"Vigilant."
1919	William H. Moulton	Arlington	Boatswain	Base 7.
1919	G. F. Paul Stone	Pigeon Cove	Boatswain	Base 7.
1921	Norman D. MacLellan	E. Weymouth	Boatswain	C. G. 291, Base 18.
1924	J. Malcolm Joseph	Dorchester	Boatswain	Base 5.
1922	Emerson J. Cudios	Gloucester	Boatswain	Base 7.
1924	Leo J. Libby	Marlboro	Machinist	Base 5.
1924	George A. Choquette	Lowell	Machinist	Base 4.
1927	C. Earl Vanderhoop	Gay Head	– –	New York.

The Hydrographic Office, Navy Department.

1900	Gershom Bradford	Duxbury	Assc. nautical engineer	Washington, D. C.
1919	Charles B. Scully	Rockland	Assc. nautical engineer	Washington, D. C.
1918	J. Chase McKenzie	Dorchester	Asst. nautical scientist	Washington, D. C.
1918	Alexander G. Anderson	Dorchester	Asst. nautical engineer	Washington, D. C.
1918	James R. Heaney	E. Lynn	Asst. nautical scientist	Washington, D. C.
1919	Walter J. Cronin	Somerville	Asst. nautical scientist	Washington, D. C.
1919	Arthur O'Leary	So. Boston	Asst. nautical engineer	Washington, D. C.
1920	William G. Watt	Auburndale	Asst. nautical scientist	Washington, D. C.
1925	Harold V. Nerney	Attleboro	Nautical assistant	New York, N. Y.

Ship Construction.

Year.	Name.	Residence.	Position.	Vessel or Service.
1895	William J. Fitzgerald	Greenwood	– –	Navy Yard, Boston.
1896	Herbert E. Kershaw	Lawrence	Chief machinist	Retired.
1905	Reginald W. Burdekin	Northampton	Induction motors	General Electric Co.
1909	Louis F. Jones	Wollaston	Leadingman machinist	Navy Yard, Boston.
1912	Chester A. Horton	Somerville	Air Force supervisor	Navy Yard, Boston.
1916	*Howard U. Chase	Nantucket	Superintendent	South Beach Boat Co., Nantucket.
1923	Alfred Humphries	Lynn	Assistant foreman	General Electric Co.
1924	Percy J. Lewis	W. Lynn	Diesel expert	Ingersoll-Rand Co.
1924	Earle B. Downing	E. Lynn	Field engineer	General Eectric Co.

Appropriations.

The appropriations for the school for the fiscal year 1929, from December 1, 1928, to November 30, 1929, are here accounted for as follows:

Expenses of Schoolship.	Appropriation.	Expenditures.
Personal services	$46,800 00	$43,187 12
Travel, transportation and office expenses	2,000 00	1,595 52
Food	23,000 00	23,258 32
Furnishings and household supplies	900 00	1,181 71
Medical and general care	1,400 00	1,586 87
Heat, light, power, etc.	9,430 00	9,798 47
Repairs, ordinary	3,000 00	2,447 69
Miscellaneous	3,200 00	5,616 92
Appropriation by the Commonwealth*	$89,730 00	$88,672 62
Unexpended balance	–	1,057 38
	$89,730 00	$89,730 00

Expenses of Commission.	Appropriation.	Expenditures.
Personal services	$4,670 00	$4,550 00
Office supplies and equipment	300 00	206 93
Traveling and other services and expenses	2,000 00	2,061 57
Appropriation by the Commonwealth*	$6,970 00	$6,818 50
Unexpended balance	–	151 50
	$6,970 00	$6,970 00

*The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

The estimates for the year 1930 are as follows:

Expenses of Schoolship	$90,702
Expenses of Commission	2,372
Personal Service	4,660

Respectfully submitted,

WILLIAM E. McKAY, *Chairman.*
CLARENCE E. PERKINS.
THEODORE L. STORER.

Public Document No. 42

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COLL.

The Commonwealth of Massachusetts

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1930

MASSACHUSETTS NAUTICAL SCHOOL
DEPARTMENT OF EDUCATION

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE
850. 1-'31 Order 1048

The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION.

PAYSON SMITH, *Commissioner of Education.*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL.

14 BEACON STREET, BOSTON.

WILLIAM E. MCKAY, *Chairman.*
CLARENCE E. PERKINS.
THEODORE L. STORER.

WILLIAM H. DIMICK, *Secretary.*

REPORT OF THE COMMISSIONERS.

To the Commissioner of Education.

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1930, the thirty-ninth annual report.

SCHOOL CALENDAR, 1930.

Spring entrance examinations	March 27, 28, 29
Winter term ended	April 3
Spring graduation	April 3
Summer term commenced	April 21
"Nantucket" sailed from Boston	May 28
"Nantucket" arrived at Boston	September 19
Autumn entrance examinations	September 25, 26, 27
Autumn graduation	October 8
Summer term ended	October 8
Winter term commenced	October 27

THE EDUCATIONAL OPPORTUNITY.

The Massachusetts Nautical School offers instruction to the young men of the state desiring to fit themselves for a seafaring life as deck and engineer officers. The course of study occupies two years, and includes seamanship, navigation, marine engineering, marine law, ship construction, mathematics and English. During the winter term, studies are conducted on board the Schoolship *Nantucket* while berthed in Boston. Practical instruction is given while the ship is cruising from May until September. Applicants must be between the ages of seventeen and twenty years. The following deposits are made when entering the school: a clothing deposit of $150, a graduation deposit of $50, and a tuition fee of $50. The graduation deposit is returned to the cadet upon graduation; if he fails to graduate for any reason, it is forfeited to the state. At the beginning of the second year there is required a clothing deposit of $50 and a tuition fee of $50. Students are enrolled in the school in March and September by competitive examination.

The work of the school has been marked by the large proportion of its graduates who continue in the vocation for which they are trained (about 85%), by the rapid progress made by the graduates in the merchant marine, and by the creditable performance of its graduates in times of national emergency.

The graduates of the school are employed as officers in all the principal steamship lines of the country both in the foreign trade and in the domestic trade. A large

number have attained to the highest rank as captains and chief engineers, and many are holding executive positions in various steamship lines as President, Operating Manager, Marine Superintendent, Port Captain and Port Engineer.

The School and American Shipping.

"The Nation is to be congratulated on the existence of the State training ships, whose value is coming more and more to be appreciated by national and state governments, and by all who have to do with the great business of the sea. They are not new institutions. For many years they have been producing trained sea officers for the United States, but with the vast increase of the merchant marine which the Great War wrought, the schoolships have taken on a new importance. They are main sources of technical education for the leaders of our personnel afloat, and representing as they do the three great characteristic maritime states of Massachusetts, New York, Pennsylvania, they are calculated to bring to the merchant service the most carefully chosen and efficient young Americans."—Winthrop L. Marvin (late Vice-President and Manager, American Steamship Owners Association).

The Work of the Year.

At the autumn entrance examination algebra and geometry, as required subjects, were included in the examination for the first time. This requirement places a greater emphasis upon the fact that a good knowledge of mathematics is necessary for anyone desiring to take the course in the school.

Among the improvements made to the equipment was the installation in the spring of an electric refrigerating plant of the most modern type.

An exhibit of the work was made at the Eastern States Exposition from September 14 to September 20, and at the Massachusetts Bay Tercentenary Exhibition held in the Commonwealth Armory from September 29 to October 11.

On February 18 the Alumni Association presented the school with a State Flag. The presentation was made in the Hall of Flags, State House, by His Excellency, Governor Frank G. Allen, on behalf of the Alumni Association, the gift being received by Capt. Armistead Rust, U.S.N., the Superintendent of the school. A company of cadets was present.

The Boston Marine Society, the oldest marine society in the world, has voted to award a gold watch to an honor graduate. This prize was awarded for the first time on October 8. This helpful cooperation on the part of the Boston Marine Society is much appreciated.

During the summer the schoolship *Nantucket* sailed or steamed 10,800 miles, having on board 115 cadets. Practical instruction and study periods were combined with good effect. The itinerary included ports in the Azores, Wales, Ireland, England, Scotland, Norway, Holland, Morocco and the Madeira Islands.

California Nautical School.

The California Nautical School established in 1929 will begin operations on February 2, 1931. The capacity of the school will be 120.

The school will be conducted on board the *S.S. California State*, a United States Shipping Board vessel of 2,592 tons, and will be located at Tiburon, California, where a large tract of land has been placed at the disposal of the school. The schoolship will be in port for about seven months and make a practice cruise of five months.

Historical Review.

The Massachusetts Nautical School had its inception in an Act of Congress passed on June 20, 1874. The purpose of this act was to encourage the establishment of nautical schools in seacoast states. The legislation authorized the Secretary of the Navy to furnish, upon application by the Governor of the State, a suitable vessel with all equipment, to be used for the benefit of any nautical school

established at a port specified in the Act. The ports named were Boston, Philadelphia, New York, Seattle, San Francisco, Baltimore, Detroit, Saginaw, Norfolk and Corpus Christi. The Massachusetts school was established by the Legislature on June 11, 1891. On October 28, 1892, the Navy Department loaned the *U.S.S. Enterprise* to the State.

The first entrance examination of the candidates for admission to the school was held at the State House on February 25, 1893. The first cadets were enrolled and received on board on April 5, 1893. After a short cruise in Massachusetts Bay, the *Enterprise* sailed for New York on April 22 to participate in the Naval Review, returning to Boston on May 1. A short cruise was then made to New England ports. The ship sailed on the first foreign cruise on July 1, 1893. The first class was graduated on April 13, 1895. The work was conducted on board the *Enterprise* for sixteen years, from April 5, 1893, until April 26, 1909, when the *Enterprise* was returned to the Navy Department and replaced by the *U.S.S. Ranger*. Nine years later, in 1918, the Navy Department changed the name of the ship from *Ranger* to *Nantucket*, in order to avoid duplication, as the name *Ranger* was given to one of the new naval vessels.

Two thousand seven hundred and forty-two young men have received instruction in the theory and practise of seamanship and marine engineering.

The school functioned as a separate State department for many years. On July 13, 1919, it was incorporated in the Department of Education. As a Division of that Department, the work is administered by three Commissioners appointed by the Governor.

An exhibit has been made at the following expositions: Louisiana Purchase Exposition, held in St. Louis in 1904; Lewis and Clark Exposition, Portland, Oregon, held in 1905; the Jamestown Tercentenary Exposition, held at Hampton Roads, Va., in 1907; the Panama Pacific International Exposition, held in San Francisco, California, in 1915; the Massachusetts Bay Tercentenary Exhibition held in Commonwealth Armory, Boston, from September 29 to October 11, 1930. The school has been awarded three gold medals and one silver medal.

At the opening of the Spanish-American War in 1898, the school had been in operation only five years, yet about one hundred graduates and ex-cadets engaged in War service in various capacities from yeoman to ensign. On May 7, 1928, a bronze tablet, in memory of the graduates and former cadets who served in the Spanish-American War, was unveiled on board the Schoolship by Hon. Roger Wolcott, whose father was Governor of Massachusetts during that war.

The record of the graduates in the Great War of 1917–18 is highly creditable. About 300 graduates served as officers in the Navy, Naval Reserve Force, the Marine Corps, and auxiliary services, with commissions ranging from ensign to commander. In addition, 150 graduates served as officers in the American merchant marine, of whom 25 were in command of ships. Eleven graduates lost their lives during war service; a bronze tablet in memory of these graduates was placed on board the Schoolship *Nantucket* in September, 1924.

Graduates of the School in 1930.

The following is a list of the fifty-two graduates of 1930, the names of their home towns, and the vessels on which they are serving:

Stanley D. Alger	Atlantic	S. S. Katrina Luckenbach	Luckenbach Line
Alan R. Bellhouse	Medford	S. S. Oriente	Ward Line
Silvio Bellucci	Mansfield		
Harry J. Best, Jr.	Brookville	S. S. West Selene	American Republics Line
J. D. Clyde Bergin	W. Springfield	S. S. Arden	American Export Line
Harry P. Blackwood, Jr.	Brookline	S. S. Katrina Luckenbach	Luckenbach Line
Arthur L. Brouillet	Holyoke		
William E. Brown, Jr.	Woburn	S. S. Texan	American Hawaiian Line
Paul W. Buliung	Framingham		
Maurice P. Casey	Fall River	S. S. Harry Luckenbach	Luckenbach Line
Carleton H. Clogston	Lowell	S. S. W. L. Steed	Pan American Petroleum & Trans. Co.
James F. Conniff	Newtonville	S. S. San Bruno	United Fruit Co.
Carlton W. Crocker, Jr.	East Boston		
Ralph F. Cutter	Athol	S. S. Alaskan	American Hawaiian Line

George N. Davies	Tewksbury	S. S. Katrina Luckenbach	Luckenbach Line
Charles A. Davis	N. Abington		
Daniel T. Deering	Beverly	S. S. Macabi	United Fruit Co.
Russell Dickinson	Taunton	S. S. Minnesotan	American Hawaiian Line
William F. Donlevy	Attleboro	S. S. Kentuckian	American Hawaiian Line
Alison M. Ellis	Attleboro	Special employment	General Electric Co.
George B. Entwistle	New Bedford	S. S. Cliffwood	American Scantic Line
Wilfrid J. Garner, Jr.	Holyoke	S. S. Santa Clara	Grace Line
James G. Harrington	Waverley	S. S. Cities Service	Boston Cities Service Trans. Co.
Melvin F. Healy	Fall River	S. S. Swift Wind	Mallory Line
Howard K. Heath	Lawrence		
Joseph P. Ingram	Leominster	S. S. Minnequa	Moore & McCormack Line
Charles A. Kacocha	Ware	S. S. Kentuckian	American Hawaiian Line
Alfred E. Knapton	Lawrence	At sea	Cities Service Co.
Aarne E. Koskela	Sagamore		
Austin W. Lunt	Athol		
L. Lloyd MacLean	Fall River	At sea	Mallory Line
Elmer E. Maihiot, Jr.	Melrose	S. S. Satartia	American Republics Line
Peter R. Maziarz	Holyoke		
Everett L. Morgan	Brockton	S. S. Exchange	American Export Line
Larz D. Neilson	Wilmington	S. S. American	American Hawaiian Line
Frederick R. Noyes	Lexington	S. S. Missourian	American Hawaiian Line
Kenneth S. Roscoe	Charles River	S. S. San Gil	United Fruit Co.
Roy I. Ross	Cambridge	S. S. Texan	American Hawaiian Line
Daniel A. Sheehan	Lawrence	S. S. Sewall Point	Mystic Steamship Line
James W. Shepherd	Lowell	S. S. Ohioan	American Hawaiian Line
George W. Sherman	Raynham Centre	S. S. Missourian	American Hawaiian Line
John E. Sholes	Waban	S. S. San Bruno	United Fruit Co.
Paul H. Skuse	Watertown	S. S. San Gil	United Fruit Co.
Donald R. Small	Sagamore	U. S. L. H. T. Anemone	United States Lighthouse Service
Robert B. Smith	Malden	S. S. Tracy Bros.	Tracy Line
Zygmund P. Soboczinski	Haverhill		
Robert E. Whalley	Salem	S. S. Texan	American Hawaiian Line
Gilbert J. Whitehead	E. Walpole	S. S. H. Luckenbach	Luckenbach Line
C. Reginald Whittier	Danvers	S. S. San Bruno	United Fruit Co.
Ernest Williams	Holyoke	S. S. Mexican	American Hawaiian Line
Arthur G. Wood	Marblehead	S. S. Culverson	American Republics Line
James E. Woodward	Auburndale	S. S. Texan	American Hawaiian Line

The School Record.

During the year there have been 180 students on the rolls of the school. They came from 86 cities and towns of the Commonwealth, as follows:

Abington	1	Methuen	1
Amesbury	1	Middleborough	1
Annisquam	1	Milford	1
Arlington	2	Natick	1
Athol	2	New Bedford	5
Attleboro	2	Newton	5
Belmont	2	North Abbington	1
Beverly	2	North Adams	1
Boston	15	Northbridge	1
Bradford	1	Norwood	1
Braintree	2	Palmer	1
Bridgewater	3	Plainville	1
Brockton	3	Prides Crossing	1
Brookline	1	Quincy	4
Brookville	1	Raynham	1
Cambridge	3	Reading	3
Charles River	1	Revere	1
Cheshire	1	Rockland	3
Chicopee	1	Sagamore	2
Danvers	1	Salem	4
Dover	1	Saugus	1
Edgartown	1	Somerville	4
Everett	2	Springfield	4
Fall River	8	Taunton	1
Framingham	2	Tewksbury	1
Georgetown	2	Three Rivers	1
Gloucester	2	Waban	1

Haverhill	2	Walpole	2
Hingham	1	Waltham	3
Holyoke	7	Ware	1
Hull	1	Watertown	3
Lawrence	4	Waverley	1
Leominster	2	Wellfleet	1
Lexington	2	Westfield	1
Longmeadow	1	Weston	2
Lowell	2	West Springfield	2
Lynn	1	Weymouth	2
Malden	4	Whitinsville	1
Mansfield	1	Wilmington	1
Marblehead	1	Winthrop	2
Medfield	1	Woburn	3
Medford	3	Worcester	1
Melrose	4	Wrentham	1
			180

The previous education of these students was as follows:—High schools, 159; technical schools, 7; academies, 5; vocational schools, 4; colleges, 3; grammar schools, 2. The average age of the cadets at entrance was 18 years, 3 months. The number of cadets enrolled in the school at present is 117.

Graduation Exercises.

The seventy-first graduation exercises were held on board the *Nantucket* at the North End Park on Thursday, April 3, 1930, at 11 A. M. The program was as follows:

Invocation: Rev. William A. Grove.
Address by Presiding Officer: Clarence E. Perkins, Commissioner.
Address: Hon. Leverett Saltonstall, Speaker of the Massachusetts House of Representatives.
Presentation of Maritime Association Prizes by Commissioner Theodore L. Storer.
Seamanship Class: James F. Conniff, Newtonville.
Engineering Class: Zygmund P. Soboczinski, Haverhill.
Presentation of Alumni Association Prizes by Commissioner Clarence E. Perkins.
Seamanship Class: James F. Conniff, Newtonville.
Engineering Class: Alison M. Ellis, Attleboro.
Representing the General Electric Co.: Mr. James A. Frew, class of 1929.
Presentation of Bibles: Rev. William A. Grove.
Presentation of Diplomas: Dr. Payson Smith, Massachusetts Commissioner of Education.

The seventy-second graduation exercises were held on board the *Nantucket* at the North End Park on Wednesday, October 8, 1930, at 11 A. M. The program was as follows:

Invocation: Rev. Sidney Lovett, D.D.
Address by Presiding Officer: Clarence E. Perkins, Commissioner.
Address: Capt. B. B. Wygant, U.S.N., Professor, Military Science and Tactics, Harvard University.
Presentation of Alumni Association Prizes by Capt. Howard G. Copeland, U.S.N.R., class of 1906.
Seamanship Class: Alan R. Bellhouse, Medford.
Engineering Class: Silvio Bellucci, Mansfield.
Presentation of Maritime Association Prizes by Mr. George R. Farnum.
Seamanship Class: Alan R. Bellhouse.
Engineering Class: Silvio Bellucci.
Presentation of Boston Marine Society Prize by Capt. George E. Eaton, class of 1895.

Graduate standing highest in seamanship: Alan R. Bellhouse.

Presentation of Wood-Whitman Memorial Prize by Commissioner Theodore L. Storer.

The graduate of the year standing highest in Seamanship and Navigation: Alan R. Bellhouse.

Presentation of Bibles: Dr. Sidney Lovett.

Presentation of Diplomas: Dr. Payson Smith, Commissioner of Education.

Lectures

1929. Winter Term, 1929–1930.

November 13. Hubert W. Perry: Musical Entertainment.

November 20. Prof. Harlan T. Stetson. Subject: "Astronomy."

December 4. Dr. Charles E. Park. Subject: "The Pilgrim Fathers" (illustrated).

December 11. Rear Admiral William S. Sims, U.S.N. Subject: "Experiences of a Naval Officer."

December 18. Capt. R. Z. Johnston, U.S.N. Subject: "Opportunities for Cadets."

1930.

January 8. Capt. Herman T. Parker. Subject: "The American Merchant Marine."

January 15. Capt. Thomas G. Frothingham. Subject: "The Genesis of the United States Navy."

January 22. Prof. Robert DeC. Ward. Subject: "Weather Observations on a Trip Around the World."

February 19. Mr. James Otis Porter. Subject: "The Merchant Marine and Marine Insurance."

Officers and Instructors.

The present officers and instructors of the school are as follows:

Armistead Rust, Captain U. S. N., Retired, Superintendent of Schoolship.

Norman E. Merrill (graduate M. N. S). Schoolship Executive Officer.

William W. Storey, Lieutenant, U. S. N. R. (graduate M. N. S)., Schoolship Navigator.

Richard T. Rounds (graduate M. N. S)., Schoolship Watch Officer.

Nicolai S. Sivertsen, Schoolship Watch Officer.

Ervin L. Kelley, Lieutenant, U. S. N. R. (graduate M. N. S.), Chief Marine Engineer.

Norman L. Queen (graduate M. N. S.), Assistant Marine Engineer.

John E. Wright, Schoolship Instructor in Mathematics.

Robert S. Palmer, M. D., Schoolship Surgeon.

Charles Parker, Schoolship Paymaster.

Detailed Report on the Practise Cruise.

The *Nantucket* sailed from Provincetown on May 31 and arrived at Ponta Delgada, Azores, on June 12. During this passage the ship steamed 862 miles, was under steam and sail 739 miles, and under sail alone 551 miles.

The ship left Ponta Delgada on June 16 and arrived at Cardiff, Wales, on June 24.

Leaving Cardiff on June 29, the *Nantucket* arrived at Kingstown, near Dublin, Ireland, on June 30. On July 4, the ship was full dressed, and in the forenoon the cadets had boat races under oars and sail, tug of war, and a race over the masthead, all between the starboard and port watches.

The ship sailed from Kingstown, Ireland, on July 5, and arrived at the Albert Dock, Liverpool, on July 6. At this port the officers and cadets had an opportunity to visit the H. M. S. "Conway," the British Schoolship, anchored off Birkenhead.

On July 10, the *Nantucket* sailed from Liverpool and arrived at the Queen's Dock, Glasgow, on July 11. The Lord Provost invited the cadets to visit the municipal building and provided a guide.

The *Nantucket* sailed from Glasgow on July 17 and arrived at Bergen, Norway, on July 21. Strong head winds, increasing at times to a moderate gale with a heavy head sea were experienced, and the speed of the ship was reduced to less than two knots at times.

The ship sailed out of the port of Bergen on July 26 and arrived at Amsterdam on July 29. The Harbormaster at Amsterdam placed a tug at the disposal of the ship and took the cadets around the harbor.

On August 4 the *Nantucket* sailed from Amsterdam and arrived at Gibraltar on August 13.

The ship sailed from Gibraltar on August 16 and arrived at Casa Blanca, Morocco, on the 17th. The *Nantucket* sailed from Casa Blanca on August 19 and arrived at Funchal, Madeira, on August 21.

The ship sailed from Funchal, Madeira, on August 24, and arrived at Orient Harbor, Long Island, New York, on September 13. The weather was generally good during the passage home, affording excellent opportunity for work in practical navigation. Only five vessels were sighted during the passage of twenty days.

Distances Made for the Cruise.

Uneer steam	4,256 miles
Under steam and sail	4,963 miles
Under sail alone	1,567 miles
Total for the cruise	10,786 miles

Coal Report.

Coal on hand and received	795 tons
Expended	754 tons
Remaining	41 tons

Detailed Expenditures.

Moving ship	512 tons
Dynamos and auxiliaries	187 tons
Distilling water	47 tons
Galleys	8 tons
Total	754 tons

Cadet Officers of the Massachusetts Nautical School.

Summer Term, 1930.

Alan R. Bellhouse, *Cadet Master.*

Navigation.

Harry J. Best, Jr.	*Cadet First Officer.*
Donald R. Small	*Cadet Second Officer.*

Engineering.

Everett L. Morgan	*Cadet Engineer.*
Silvio Bellucci	*Cadet First Assistant Engineer.*
Joseph P. Ingram	*Cadet Second Assistant Engineer*

Winter Term, 1930–31.

Navigation.

Walter J. Bienia	*Senior Cadet Officer.*
Joseph Tuliszewski	*Junior Cadet Officer.*

Engineering.

Clifford P. McKeon	*Cadet Engineer Officer.*

Cadets Admitted, Graduated and Honorably Discharged, from 1893 to 1930 inclusive.

	Admitted.	Graduated.			Honorably discharged	Withdrawn, dismissed, dropped.	Number connected with the school.
		Seamanship Class.	Engineer Class.	Totals			
1893	141	–	–	–	29	24	138
1894	63	–	–	–	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	138
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
1929	71	23	29	52	12	7	189
1930	62	33	19	52	8	3	180
Total	2742	748	678	1426	720	480	

Membership of the School.

*(Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.)

Graduating Class, April, 1930.

Seamanship Division.

*Conniff, James F.	Newtonville
Wood, Arthur G.	Brookline
Woodward, James E.	Woodward
Entwistle, George B.	New Bedford
Dickinson, Russell	Taunton
Smith, Robert B.	Malden
Williams, Ernest	Holyoke
Cutter, Ralph F.	Athol
Noyes, Frederick R.	Lexington
Neilson, Larz D.	Wilmington
Skuse, Paul H.	Watertown
Sherman, George W.	Raynham Center
Casey, Maurice P.	Fall River
Roscoe, Kenneth S.	Charles River

Engineering Division.

Soboczinski, Zygmund P.	Haverhill
Ellis, Alison M.	Attleboro
Whittier, C. Reginald	Danvers
Healy, Melvin F.	Fall River
Sheehan, Daniel A.	Lawrence
Knapton, Alfred E.	Lawrence
Bergin, J. D. Clyde	West Springfield

Graduating Class, October, 1930.

Seamanship Division.

*Bellhouse, Alan R.	Medford
*Best, Harry J., Jr.	Brookville
Small, Donald R.	Sagamore
Maziarz, Peter R.	Holyoke
Sholes, John E.	Waban
Davis, Charles A., Jr.	North Abington
Clogston, Carleton H.	Lowell
Ross, Roy I.	Cambridge
MacLean, L. Lloyd	Fall River
Brown, William E., Jr.	Woburn
Kacocha, Charles A.	Ware
Donlevy, William F.	Attleboro
Koskela, Aarne E.	Sagamore
Shepherd, James W.	Lowell
Harrington, James G.	Waverley
Crocker, Carlton W., Jr.	East Boston
Brouillet, Arthur L.	Holyoke
Lunt, Austin W.	Athol
Heath, Howard K.	Lawrence

Engineering Division.

Bellucci, Silvio	Mansfield
Morgan, Everett L.	Brockton
Deering, Daniel T.	Beverly
Davies, George N.	Tewksbury
Garner, Wilfrid J., Jr.	Holyoke
Blackwood, Harry P., Jr.	Brookline
Whalley, Robert E.	Salem
Ingram, Joseph P.	Leominster
Maihiot, Elmer E., Jr.	Melrose
Alger, Stanley D.	Atlantic
Whitehead, Gilbert J.	E. Walpole
Buliung, Paul W.	Framingham

Class to Graduate April, 1931.

Seamanship Division.

Bienia, Walter J.	New Bedford
Green, John E., Jr.	Medford
Tuliszewski, Joseph	Norwood
Rowe, Robert L.	Worcester
Pendergast, William R.	Everett
Fortunati, Joseph F., Jr.	Somerville
Driscoll, William G.	Belmont
Cederberg, Stanley W.	Woburn

Munro, Adelbert G.	Medford
Raymond, Eugene C.	Springfield
McPhee, Harold R.	Gloucester
Conners, Bernard E.	Salem
Banach, Thaddeus A.	Holyoke
Whitney, Gordon P.	Leominster
Peck, George F. J.	Braintree
Sullivan, James L.	Fall River
Hammer, Arthur J.	West Roxbury

Engineering Division.

Irving, Richard W.	West Roxbury
McKeon, Clifford J.	Hull
Crosby, James D.	Belmont
Berry, Paul L.	Malden
Nelson, Nels P.	Walpole
Freeman, Raymond R., Jr.	Wellfleet
Scott, Walter L.	Fall River
Kenney, Paul J.	West Somerville
Barry, Ralph L.	Brockton
Balch, Kenneth B.	Springfield
Poor, Bailey	Medfield
Hunter, Charles R.	East Boston
Mundy, Joseph H.	Revere

Class to Graduate October, 1931.

Seamanship Division.

Bentley, William F.	Winthrop
Phipps, Leroy F.	Waltham
Burrage, Edward B.	Reading
Jarman, Warren E.	Haverhill
Berry, Hilary J.	Melrose Highlands
Barkowsky, Anthony J.	Brockton
Polletta, Pasquale M.	Amesbury
Thombs, Stanley A.	Shrewsbury
Charlton, William S.	Jamaica Plain
Callaghan, Daniel F.	Roslindale
Smith, Philip M., Jr.	Milford
Casilli, Richard J.	Roslindale
Regan, John B.	Bradford
Brozek, John J.	Three Rivers
Bushey, John O.	Woburn
Dimock, Joseph J., Jr.	Springfield
Little, John S.	Melrose
Chambers, Alden R.	Boston
Playdon, George W.	Reading
Shockley, Robert B.	Bridgewater
Connors, Robert J.	Prides Crossing
Allman, Paul J.	Chicopee Falls

Engineering Division.

Knowlton, Herbert W.	Arlington
Case, W. Evans DeW.	Cheshire
Kiely, Robert T.	Lynn
Holt, Everett E.	Georgetown
Peabody, Malburne J.	Georgetown
Jones, Alwin C.	Middleborough

Class to Graduate ,April 1932.

Roscoe, George L.	Dover
Thompson, Robert E.	East Boston
Cowell, Thomas E.	Hingham
Uebel, William R.	Medford
Gill, John G.	West Newton
Mills, Stuart K.	Fall River
Foote, Warren B.	Framingham
Hartford, Thurston	Wollaston
Rosol, Emile	Northbridge
Fittz, Ronald M.	Natick
Taggart, Stuart H.	West Springfield
Hansford, Harold	Lawrence
Charette, Normand R.	New Bedford
Forsey, Robert K.	Springfield
Atkinson, Leo T.	Cambridge
Ingram, William H.	South Lincoln
Bey, Wilbur A.	Holyoke
McGrath, Christopher J., Jr.	Newtonville
Hettinger, Alvin T.	Roslindale
Willoughby, John A.	Edgartown

Class to Graduate October, 1932.

(Alphabetically arranged.)

Atwood, Loren E.	Winthrop
Austin, Frederick.	Mattapan
Baketel, George S.	Methuen
Berry, Hilary J.	Melrose Highlands.
Bowen, Robert J.	Salem
Burbank, A. Murray	Watertown
Campbell, Clarence H.	Arlington
Chesley, Carl F.	Lexington
Clark, Kenneth H.	West Bridgewater
Conde, Jesse C., Jr.	Everett
Connors, William J.	Watertown
Ebsary, Theodore P.	Charlestown
Haggett, Gordon P.	South Weymouth
Hargraves, William E.	New Bedford
Hemeon, William D.	Salem
Lamb, William H.	Rockland
Lermond, Joseph W.	Whitinsville
Lumbert, Chesley W.	Reading
MacDonald, James, Jr.	Atlantic
MacDonald, Neil	Weston
McGowan, Edward R.	Gloucester
Melbye, Ernest M.	Wrentham
Mika, Henry J.	Roslindale
Montgomery, William R.	Melrose
Neil, T. Arthur	Waltham
Nichols, John A.	Malden
Page, Lucian T.	South Weymouth
Paterson, William B.	Quincy
Prophett, William C.	Bridgewater
Root, Richard C.	Plainville
Ross, James R.	Roxbury
Schiesske, Victor G.	Holyoke
Shepard, Norman H.	Beverly

Smith, Raymond C.	Westfield
Swann, Donald M.	North Adams
Weir, William	Rockland

Appropriations.

The appropriations for the school for the fiscal year 1930, from December 1, 1929, to November 30, 1930, are here accounted for as follows:

Expenses of Schoolship.	Appropriation	Expenditures
Personal services	$46,650 00	$43,386 21
Travel, transportation and office expenses	1,125 00	1,968 10
Food	24,000 00	23,631 59
Furnishings and household supplies	1,000 00	1,277 01
Medical and general care	1,475 00	1,540 01
Heat, light, power, etc.	9,400 00	8,810 01
Repairs	7,600 00	7,927 31
Miscellaneous	3,600 00	5,488 47
Appropriation by the Commonwealth*	$94,850 00	$94,028 71
Unexpended balance		821 29
	$94,850 00	$94,850 00

Expenses of Commission.	Appropriation	Expenditures
Personal services	$4,650 00	$4,645 00
Office supplies and equipment	300 00	272 15
Traveling and other services and expenses	2,000 00	2,024 92
Appropriation by the Commonwealth*	$6,950 00	$6,942 07
Unexpended balance		7 93
	$6,950 00	$6,950 00

*The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

The estimates for the year 1931 are as follows:

Expenses of Schoolship	$94,524
Expenses of Commission	2,427
Personal Services	4,865

Respectfully submitted,

WILLIAM E. McKAY, *Chairman.*
CLARENCE E. PERKINS.
THEODORE L. STORER.

Public Document No. 42

The Commonwealth of Massachusetts

MASS.
DOCS.
COLL.

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1931

MASSACHUSETTS NAUTICAL SCHOOL
DEPARTMENT OF EDUCATION

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE
850. 1-'32. Order 4249.

The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION.

PAYSON SMITH, *Commissioner of Education.*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL.

14 BEACON STREET, BOSTON.

WILLIAM E. MCKAY, *Chairman.*
CLARENCE E. PERKINS.
THEODORE L. STORER.

WILLIAM H. DIMICK, *Secretary.*

REPORT OF THE COMMISSIONERS.

To the Commissioner of Education.

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1931, the fortieth annual report.

SCHOOL CALENDAR, 1931.

Spring entrance examinations	March 30, 31, April 1
Winter term ended	April 7
Spring graduation	April 7
Summer term commenced	April 21
"Nantucket" sailed from Boston	May 18
"Nantucket" arrived at Boston	September 18
Autumn entrance examinations	September 23, 24, 25
Summer term ended	October 8
Autumn graduation	October 8
Winter term commenced	October 26

THE SCHOOL AND ITS PURPOSE.

This year marks the fortieth anniversary of the establishment of the Nautical School. The act establishing the school was passed by the Legislature on June 11, 1891. The school was conducted on board the *U.S.S. Enterprise,* a vessel loaned to the State by the Navy Department, from 1891 until 1909. Since 1909 the school has been conducted on board the *U.S.S. Nantucket.*

The Massachusetts Nautical School offers instruction in navigation, seamanship, ship construction, law of the sea, marine engineering and electricity, to prepare young men for service as officers in the merchant marine. The two-year course usually includes two practise cruises in European waters, of from four to five months duration each.

Only youths of good character who will avail themselves of the instruction are admitted. Cadets will not be retained in the school unless they yield prompt and willing obedience to the rules and regulations of the school and obtain satisfactory marks in their studies. Youths who are not rugged in physique, and resolute and ambitious in spirit, or who are not willing to accept the restrictions that may accompany a seafaring life are not fitted to become nautical cadets.

Candidates for admission, who must be between the ages of seventeen and twenty years, are admitted by competitive examination. They must be of normal size, free from physical defects, residents of the State, and their parents or guardians must be citizens of the United States and residents of Massachusetts.

Applicants entering the school make a clothing deposit of $150, a graduation deposit of $50, and pay a tuition fee of $50. The graduation deposit is returned upon graduation. At the beginning of the second year, there is required a clothing fund deposit of $50 and a tuition fee of $50.

The *Nantucket* has both steam and sail power, is barkentine rigged, and built of iron. The ship is equipped with many of the modern appliances at present used in handling ships at sea; it has a complete outfit of Navy regulation boats, including two motor launches.

A graduate of the school who has reached the age of nineteen years is eligible for examination for a marine officer's license.

A catalogue and blank applications can be obtained at the office of the Commissioners, 14 Beacon St., Boston.

The Work of the Year.

The work of the Massachusetts Nautical School shows steady progress. The number of cadets continues to be limited only by the accommodations of the schoolship. There has been an increase in the number of applicants recently. The number of graduates for the year is 57, the largest number graduated in any one year. The total number of graduates is 1,483.

The Schoolship *Nantucket* has been berthed the past year at the Navy Yard, Charlestown, to which place it was necessary to move the ship on January 24 for the annual repairs. Upon the return of the *Nantucket* from the annual practise cruise in September, it was not possible to use the usual berth at the North End Park on account of the construction work going on at that place. Through the courtesy of Rear Admiral Louis M. Nulton, U.S.N., Commandant, First Naval District, the third floor of a building at the Navy Yard has been placed at the disposal of the school.

During the annual practise cruise, the ship steamed or sailed 11,390 miles, calling at the following ports: Provincetown; Gibraltar; Palermo, Italy; Athens, Greece; Istanbul, Turkey; Milos, Greece; Malta; Algiers, Algeria; Madeira; Hamilton, Bermuda (for coal); and Orient, Long Island. The *Nantucket* left Boston on May 18 and returned to Boston on September 18. In view of the fact that a scarcity of competent men to operate square rigged sailing vessels has been a subject of public comment in recent months, it is interesting to note at this time that during the practise cruise, the *Nantucket* voyaged 2,565 miles under sail only.

Physics and Mechanical Drawing have been substituted for English in the curriculum of the school. English will be given double weight in the entrance examination.

As will be seen by the following letter from Rear Admiral Louis M. Nulton, U.S.N., dated May 27, the course of training enabled the cadets to take part in the actual work of reconstructing the Frigate *Constitution:* —

> "Subject: U. S. Frigate *Constitution* — sails — manufacture of, by Massachusetts Nautical Training Ship *Nantucket.*
>
> 1. There has been brought to my attention the very fine workmanship of the *Nantucket* in the manufacture of the Main Royal, Mizzen Royal, and Mizzen Topgallant Sails of the Frigate *Constitution.* The manufacture of these sails as a voluntary contribution has saved several hundred dollars in the cost of restoration. I want the Commanding Officer and the others responsible for the execution of this difficult task to know that we are deeply grateful to them for their extraordinary efforts in behalf of the *Constitution.*"

Graduates of the School in 1931.

The following is a list of the fifty-seven graduates of 1931, the names of their home towns, and the vessels on which they are serving:

Paul J. Allman	Springfield		
Kenneth B. Balch	Springfield	S.S. Kentuckian	American Hawaiian Line
Thaddeus A. Banach	Holyoke	S.S. President Harding	United States Lines
Anthony J. Barkowsky	Brockton	At sea	American Hawaiian Line
Ralph L. Barry	Brockton	S.S. Susan V. Luckenbach	Luckenbach Line
William F. Bentley	Winthrop	S.S. Georgian	American Hawaiian Line
Hilary J. Berry	Melrose	S.S. American	American Hawaiian Line
Paul L. Berry	Malden	S.S. Steel Seafarer	Isthmian Line
Walter J. Bienia	New Bedford	S.S. Kansan	American Hawaiian Line
Edward B. Burrage	Reading	S.S. Collingsworth	American Republics Line
John O. Bushey	Woburn	S.S. K. I. Luckenbach	Luckenbach Line
Daniel F. Callaghan	Roslindale	S.S. Pennsylvanian	American Hawaiian Line
W. Evans DeW. Case	Cheshire	S.S. President Hayes	Dollar Line
Richard J. Casilli	Roslindale	At sea	American Hawaiian Line
Stanley W. Cederberg	Woburn	S.S. Iowan	American Hawaiian Line
Alden R. Chambers	Boston	At sea	American Hawaiian Line

William S. Charlton	Jamaica Plain	Pres. Roosevelt	United States Line
Bernard E. Conners	Salem	S.S. Kentuckian	American Hawaiian Line
Robert J. Connors	Prides Crossing	At sea	American Hawaiian Line
James D. Crosby	Belmont	S.S. Limon	United Fruit Co.
Joseph J. Dimock, Jr.	Longmeadow	S.S. Steel Ranger	Isthmian Line
William G. Driscoll	Belmont	S.S. Kentuckian	American Hawaiian Line
Joseph F. Fortunati, Jr.	Somerville	S.S. Panaman	American Hawaiian Line
Raymond R. Freeman, Jr.	Wellfleet	S.S. Dorothy Bradford	Boston and Provincetown Line
John E. Green, Jr.	Medford	S.S. Republic	United States Line
Arthur J. Hammer	West Roxbury	S.S. Iowan	American Hawaiian Line
Everett E. Holt	Georgetown		
Charles R. Hunter	East Boston	S.S. Limon	United Fruit Co.
Richard W. Irving	West Roxbury	S.S. Steel Seafarer	Isthmian Line
Warren E. Jarman	Haverhill	S.S. Montanan	American Hawaiian Line
Alwin C. Jones	Middleboro	S.S. Walter Luckenbach	Luckenbach Line
Paul J. Kenney	Somerville	S.S. Mayari	United Fruit Co.
Robert T. Kiely	Lynn	At sea	Isthmian Line
Herbert W. Knowlton	Arlington		
John S. Little	Melrose	S.S. Capillo	American Republics Line
Clifford G. McKeon	Hull		
Harold R. McPhee	Gloucester	S.S. Nevadan	American Hawaiian Line
Joseph H. Mundy, Jr.	Revere	At sea	American Export Line
Adelbert G. Munro	Somerville	At sea	American Hawaiian Line
Nels P. Nelson	Walpole	S.S. Managua	Moore and McCormack Co.
Malburne J. Peabody	Georgetown	S.S. El Dia	Southern Pacific Co.
George F. Peck	Braintree	S.S. Ohioan	American Hawaiian Line
William R. Pendergast	Everett	At sea	United States Lines
Leroy F. Phipps	Waltham		
George W. Playdon	Reading		
Pasquale M. Polletta	Amesbury	S.S. Iowan	American Hawaiian Line
Bailey Poor	Medfield	S.S. Robert Luckenbach	Luckenbach Line
Eugene C. Raymond	Springfield	S.S. Panaman	American Hawaiian Line
John B. Regan	Bradford		
Robert L. Rowe	Worcester	S.S. American	American Hawaiian Line
Walter L. Scott	Fall River	S.S. Steel Seafarer	Isthmian Line
Robert B. Shockley	Bridgewater	S.S. Missourian	American Hawaiian Line
Philip M. Smith, Jr.	Milford	M.S. Aurora	Standard Trans. Co.
James L. Sullivan	Fall River	At sea	Isthmian Line
Stanley A. Thombs	Palmer	S.S. Kansan	American Hawaiian Line
Joseph Tuliszewski	Norwood	S.S. Arizonan	American Hawaiian Line
Gordon P. Whitney	Leominster	S.S. Porto Rico	New York and Porto Rico Line

The School Record.

During the year there have been 191 students on the rolls of the school. They came from 84 cities and towns of the Commonwealth, as follows:

Amesbury	1	Lexington	1	Rockland	3
Andover	1	Longmeadow	1	Salem	6
Arlington	4	Lynn	3	Saugus	1
Belmont	4	Malden	5	Scituate	1
Beverly	1	Manchester	1	Shirley	1
Boston	23	Mansfield	1	Shrewsbury	1
Bradford	1	Marshfield	1	Somerville	6
Braintree	1	Medfield	1	Springfield	8
Bridgewater	4	Medford	5	Stoneham	1
Brockton	2	Melrose	3	Three Rivers	1
Brookline	1	Methuen	1	Vineyard Haven	1
Cambridge	2	Middleborough	1	Wakefield	1
Cheshire	1	Milford	1	Walpole	2
Chicopee	1	Nantasket	1	Waltham	3
Danvers	1	Natick	1	Ware	1
Dover	1	Needham	1	Watertown	5
Edgartown	1	New Bedford	3	Wellfleet	1
Everett	3	Newton	3	Westfield	2
Fall River	5	North Adams	1	Weston	2
Framingham	1	Northbridge	1	West Springfield	3
Georgetown	2	Norwood	1	Weymouth	2
Gloucester	2	Palmer	1	Whitinsville	1
Haverhill	1	Pepperell	1	Winthrop	3
Hingham	1	Plainville	2	Woburn	3
Holyoke	4	Plymouth	1	Worcester	3
Hull	2	Prides Crossing	1	Wrentham	1
Hyannis	1	Quincy	6		
Lawrence	3	Reading	2		
Leominster	1	Revere	1		191

The previous education of these students was as follows: — High schools, 165; colleges, 7; academies, 6; technical schools, 5; vocational schools, 4; preparatory schools, 3; grammar schools, 1. The average age of the cadets at entrance was 18 years, 5 months. The number of cadets enrolled in the school at present is 119, the capacity of the school.

Graduation Exercises.

The seventy-third graduation exercises were held on board the *Nantucket* at the Navy Yard, Charlestown, on Tuesday, April 7, 1931, at 11 A.M. The program was as follows:

Invocation: Capt. Evan W. Scott, U.S.N., Chaplain, Navy Yard, Charlestown.
Address by Presiding Officer: Capt. William E. McKay, Chairman of the Board.
Address by Rear Admiral Louis M. Nulton, U.S.N., Commandant, First Naval District.
Address by Lieut.-Governor William S. Youngman.
Address by Mr. Maurice D. Gill, a graduate of the school in the class of 1909.
Presentation of Alumni Association Prizes by Commissioner Clarence E. Perkins:
To the graduate in the Seamanship Class doing the best all round work: Cadet Walter J. Bienia, New Bedford.
To the graduate in the Engineer Class doing the best all round work: Cadet Richard W. Irving, West Roxbury.
Presentation of Maritime Association Prizes by Wilfred W. Lufkin, Collector of the Port:
To the graduate in the Seamanship Class standing highest in professional studies: Cadet William R. Pendergast, Everett.
To the graduate in the Engineer Class standing highest in professional studies: Cadet Raymond R. Freeman, Jr., Wellfleet.
Presentation of Prize awarded by the Boston Marine Society by Capt. George E. Eaton, Superintendent, 2nd Lighthouse District:
To the graduate possessing the most qualities making the best shipmaster including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership: Cadet Walter J. Bienia, New Bedford.
Presentation of Bibles: Chaplain Scott.
Presentation of Diplomas: Mr. Frank P. Morse, Supervisor of Secondary Education, Department of Education.

The seventy-fourth graduation exercises were held on board the *Nantucket* at the Navy Yard, Charlestown, on Thursday, October 8, 1931, at 11 A.M. The program was as follows:

Invocation: Rev. Ashley Day Leavitt, D.D., Brookline.
Presiding Officer: Capt. William E. McKay, Chairman of the Board.
Address: Clarence E. Perkins, Commissioner, Massachusetts Nautical School.
Address: Rear Admiral Louis M. Nulton, U.S.N., Commandant, First Naval District.
Presentation of Alumni Association Prizes by Commissioner Perkins:
To the graduate in the Seamanship Class doing the best all round work: Cadet Stanley A. Thombs, Palmer.
To the graduate in the Engineer Class doing the best all round work: Cadet Herbert W. Knowlton, Arlington.
Presentation of Maritime Association Prizes by Capt. William E. McKay:
To the graduate in the Seamanship Class standing highest in professional studies: Cadet Stanley A. Thombs, Palmer.
To the graduate in the Engineer Class standing highest in professional studies: Cadet Malburne J. Peabody, Georgetown.
Presentation of Wood-Whitman Memorial Prize by Commissioner Theodore L. Storer:
To the graduate of the year standing highest in Seamanship and Navigation: Cadet Stanley A. Thombs, Palmer.
Presentation of Boston Marine Society Prize by Capt. George E. Eaton, Superintendent, 2nd Lighthouse District:
To the graduate possessing the most qualities making the best shipmaster including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership: Cadet William F. Bentley, Winthrop.
Presentation of Bibles: Dr. Leavitt. (The Bibles are the gift of the Massachusetts Bible Society.)
Presentation of Diplomas: Mr. Frank W. Wright, Massachusetts Department of Education.

Detailed Report on the Practise Cruise.

The *Nantucket* sailed from the Navy Yard, Boston, on May 18, and arrived at Provincetown the same day. During the passage, the cadets and crew were exercised at the emergency drills and sail drill. A boat was lowered and motion pictures were made of the ship under sail, and of various drills and exercises. On May 20, the ship proceeded out into the bay to "swing ship," and the cadets were exercised at emergency, fire and abandon ship drills.

The *Nantucket* sailed from Provincetown on May 23, and arrived at Gibraltar on June 9. During the voyage — a distance of 3,197 miles — the ship proceeded as follows: under steam only 924 miles; under sail only 1,347 miles; under sail and steam 926 miles. Favorable winds were experienced until the Strait of Gibraltar was reached when there was a strong levanter from the east for about twelve hours.

The ship sailed from Gibraltar on June 15 and arrived at Palermo, Italy, on June 20. During this passage favorable weather made it possible to carry out the instruction as per schedule.

Leaving Palermo on June 25, the ship arrived at Athens on June 28. The passage was made via the Corinth Canal. Phalerum Bay afforded excellent opportunities for instruction in handling boats under oars and under sail.

Departure from Athens was made on July 2 and the ship anchored in Marathon Bay the same day. A large party of officers and cadets went ashore to visit the grave of the Athenian soldiers of Miltiades who were killed at the Battle of Marathon 490 B. C. The ship arrived at Istanbul, Turkey, on July 4.

Sailing from Istanbul on July 10, Milos was reached on July 12, where a flotilla of British destroyers were anchored. The ship sailed for Malta on July 13 arriving there on the 16th.

The *Nantucket* sailed from Valetta, Malta, on July 20, arriving at Algiers on July 24. A strong head wind and a heavy sea were encountered in the Malta Channel on account of which only 91 miles were made in 24 hours, the speed at times being reduced from 7.5 to 2.0 knots.

After a three days voyage from Algiers, the ship arrived at Gibraltar on July 31. The *Nantucket* sailed from Gibraltar on August 6, and on August 10 arrived at Funchal, Madeira. The Greek naval training ship, the *Ares*, about the size of the *Nantucket*, anchored at Funchal, on August 12. The *Ares* is a new ship, barkentine rigged, and uses fuel oil for the boilers.

On August 16, the ship sailed from Funchal, Madeira. On September 2, the *Nantucket* arrived at Hamilton, Bermuda, where it was found necessary to transfer the ship's assistant cook to the King Edward VII Hospital for treatment for an infected hand.

Sailing from Bermuda on September 3, the *Nantucket* arrived at New London, Connecticut, on September 7, where coal was taken on board; and arrived at Orient, Long Island, on the same day. During the voyage from Madeira to Orient, a distance of 3,642 miles, the ship proceeded as follows: under steam 1,024 miles; under sail 765 miles; under sail and steam 1,853 miles.

The Schoolship left Orient, Long Island, on September 17, for Boston, via the Cape Cod Canal, where she arrived on September 18.

Distances Made Good During the Summer Cruise.

Under steam	5,064 miles
Under sail	2,565 miles
Under sail and steam	3,761 miles
Total	11,390 miles
Coal Consumption	
On hand and received	767 tons
Expended	746 tons
Remaining	21 tons
Detail.	
Moving ship	496 tons
Dynamos and auxiliaries	197 tons
Distilling	47 tons
Galleys	6 tons
Total	746 tons

Lectures.

Winter Term, 1930–31.

1930.		
December	3.	Hubert W. Perry: Musical Entertainment.
December	10.	Capt. George E. Eaton. Subject: "Aids to Navigation."
1931.		
January	9.	Rev. Charles E. Park. Subject: "The Puritans of 1630."
January	23.	Capt. B. B. Wygant, U.S.N. Subject: "Destroyer Experiences in the World War."
January	30.	Prof. Robert DeC. Ward, Harvard University. Subject: "A Cruise with the International Ice Patrol."
February	13.	Mr. James O. Porter. Subject: "Salvage and Insurance."
February	19.	Lieut. Comdr. John A. Lord, U.S.N. Subject: "The Frigate *Constitution*."

Officers and Instructors.

The present officers and instructors of the school are as follows:

Armistead Rust, Captain U.S.N. (retired), Superintendent of Schoolship.
Norman E. Merrill (graduate M.N.S.), Schoolship Executive Officer.
Robert M. Gray, Lieutenant, U.S.N.R. (graduate M.N.S.), Schoolship Navigator.
Richard T. Rounds (graduate M.N.S.), Schoolship Watch Officer.
Nicolai S. Sivertsen, Schoolship Watch Officer.
Ervin L. Kelley, Lieutenant, U.S.N.R. (graduate M.N.S.), Chief Marine Engineer.
Norman L. Queen (graduate M.N.S.), Assistant Marine Engineer.
John E. Wright, Schoolship Instructor in Mathematics.
Tobias Foss, Schoolship Instructor in Mechanical Drawing.
Robert S. Palmer, M.D., Schoolship Surgeon.
Charles Parker, Schoolship Paymaster.

Cadet Officers of the Massachusetts Nautical School.

Summer Term, 1931.

Navigation.

Philip M. Smith, Jr.	*Senior Cadet Officer.*
Pasquale M. Polletta	*Junior Cadet Officer.*

Engineering.

Malburne J. Peabody	*Senior Cadet Engineer Officer.*
Alwin C. Jones	*Junior Cadet Engineer Officer.*

Winter Term, 1931–32.

Navigation.

Robert E. Thompson	*Senior Cadet Officer.*
Thurston Hartford	*Junior Cadet Officer.*

Engineering.

Warren B. Foote	*Senior Cadet Engineer Officer.*
Stuart K. Mills	*Junior Cadet Engineer Officer.*

Cadets Admitted, Graduated, and Honorably Disharged, from 1893 to 1931 Inclusive.

	Admitted.	Graduated.			Honorably discharged	Withdrawn, dismissed. dropped.	Number connected with the school.
		Seamanship Class.	Engineer Class.	Totals			
1893	141	–	–	–	29	24	138
1894	63	–	–	–	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	138
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
1929	71	23	29	52	12	7	189
1930	62	33	19	52	8	3	180
1931	74	38	19	57	6	9	191
Total	2816	786	697	1483	726	489	

Membership of the School

Graduating Class, April, 1931.

Seamanship Division.

Bienia, Walter J.	New Bedford
Pendergast, William R.	Everett
Tuliszewski, Joseph	Norwood
Fortunati, Joseph F., Jr.	Somerville
McPhee, Harold R.	Gloucester
Green, John E., Jr.	Medford
Whitney, Gordon P.	Leominster
Conners, Bernard E.	Salem
Rowe, Robert L.	Worcester
Cederberg, Stanley W.	Woburn
Raymond, Eugene C.	Springfield
Banach, Thaddeus A.	Holyoke
Driscoll, William G.	Belmont
Munro, Adelbert G.	Medford
Sullivan, James L.	Fall River
Peck, George F. J.	Braintree
Hammer, Arthur J.	West Roxbury

Engineering Division.

Irving, Richard W.	West Roxbury
Nelson, Nels P.	Walpole
Freeman, Raymond R., Jr.	Everett
Berry, Paul L.	Malden
Barry, Ralph L.	Brockton
Crosby, James D.	Belmont
McKeon, Clifford J.	Hull
Scott, Walter L.	Fall River
Balch, Kenneth B.	Springfield
Hunter, Charles R.	East Boston
Kenney, Paul J.	West Somerville
Poor, Bailey	Medway
Mundy, Joseph H.	Revere

Graduating Class, October, 1931.

Seamanship Division.

Thombs, Stanley A.	Palmer
Smith, Philip M., Jr.	Milford
Phipps, Leroy F.	Waltham
Burrage, Edward B.	Reading
Barkowsky, Anthony J.	Brockton
Polletta, Pasquale M.	Amesbury
Jarman, Warren E.	Haverhill
Connors, Robert J.	Prides Crossing
Playdon, George W.	Reading
Regan, John B.	Bradford
Bushey, John O.	Woburn
Shockley, Robert B.	Bridgewater
Bentley, William F.	Winthrop
Dimock, Joseph J., Jr.	Longmeadow
Berry, Hilary J.	Melrose Highlands
Casilli, Richard J.	Roslindale
Charlton, William S.	Jamaica Plain
Little, John S.	Melrose
Callaghan, Daniel F.	Roslindale
Chambers, Alden R.	Boston
Allman, Paul J.	Chicopee Falls

Engineering Division.

Knowlton, Herbert W.	Arlington
Peabody, Malburne J.	Georgetown
Kiely, Robert T.	Lynn
Jones, Alwin C.	Middleboro
Holt, Everett E.	Georgetown
Case, W. Evans DeW.	Cheshire

Class to Graduate, April, 1932.

Seamanship Division.

Thompson, Robert E.	East Boston
Willoughby, John A.	Edgartown
Hartford, Thurston	Wollaston
Ingram, William H.	Weston
Roscoe, George L.	Dover
Rosol, Emile	Northbridge
Bey, Wilbur A.	Holyoke
Hansford, Harold	Lawrence
Cowell, Thomas E.	Hingham
Brozek, John J.	Three Rivers

Engineering Division.

Foote, Warren B.	Framingham
Mills, Stuart K.	Fall River
Gill, John G.	West Newton
Uebel, William R.	Medford
Atkinson, Leo T.	Cambridge
Charette, Normand R.	New Bedford
Taggart, Stuart H.	West Springfield
Forsey, Robert K.	Springfield

Class to Graduate, October, 1932.

Seamanship Division.

Lermond, Joseph W.	Whitinsville
Condé, Jesse C., Jr.	Everett
Austin, Frederick	Mattapan
Page, Lucian T.	South Weymouth
Burbank, A. Murray	Watertown
Chesley, Carl F.	Lexington
Haggett, Gordon P.	South Weymouth
Melbye, Ernest M.	Wrentham
Root, Richard C.	Plainville
Lumbert, Chesley W.	North Scituate
Connors, William J.	Cambridge
Ross, James R.	Roxbury
Shepard, Norman H.	Beverly

Engineering Division.

Ebsary, Theodore P.	Charlestown
Paterson, William B.	Quincy
Campbell, Clarence H.	Arlington
Baketel, George S.	Methuen
Smith, Raymond C.	Westfield
Weir, William	Rockland
McGowan, Edward R.	Gloucester
MacDonald, James, Jr.	Atlantic
Montgomery, William R.	Melrose
Clark, Kenneth H.	West Bridgewater
Mika, Henry J.	Roslindale
Macdonald, Neil	Weston
Bowen, Robert J.	Salem
Hargraves, William E.	New Bedford
Neil, T. Arthur	Waltham

Class to Graduate, April, 1933.

Gertsen, J. Douglas	Mattapan
Anderson, Arthur L., Jr.	Hyde Park
Evans, Richard D., Jr.	Fall River
Woodward, Clifford W.	Plainville
Lamb, William H.	Rockland
Pike, John F.	West Roxbury
Nichols, John A.	Malden
Farrell, Thomas P.	Bridgewater
Beal, Gordon F.	Nantasket
Brown, Frederick S.	Belmont
Clark, William T.	Malden
Joyce, Arthur J.	Watertown
Lapine, Arthur W.	Lynn
McGilvray, John D.	Lawrence
Davis, Richard R.	East Pepperell

Elms, W. Roland	Arlington
Healy, John D.	Dorchester
Rice, C. Marsh	Lynn
Sullivan, Joseph F.	Fall River
Grahn, Peter J.	Allston
Gilman, Newell J.	West Springfield
Mallard, Philip W.	Salem
Mehegan, Alfred C.	Dorchester
Hall, Edward H.	Arlington
Pinto, Reginald F.	Vineyard Haven
Gafney, James F.	Ware
Smith, George D.	East Walpole
Taylor, Reynold A.	Norfolk Downs
Wallace, Arthur J., Jr.	Newtonville
Knox, Kenneth G.	West Medford
Keefe, Martin D., Jr.	Roslindale
Small, Gordon W.	Everett
Jakeman, William C.	Watertown
Howes, Harold D.	Hyannis
Rush, Joseph E.	Jamaica Plain
Berry, Horace A.	Malden
Arold, Frederick P.	Lawrence
Gately, John P.	Watertown
Merrill, William F.	Manchester
Hemeon, William D.	Salem

Class to Graduate, October, 1933.

(Alphabetically arranged.)

Adler, Harold	Springfield
Anderson, Russell W.	Worcester
Baker, Stanley N.	Winthrop
Bellucci, Vittorio P.	Mansfield
Berg, Martin D.	Medford
Costello, Martin J.	South Boston
Creed, Donald L.	Marshfield
Currier, Arthur R.	Shirley
Dougherty, Vincent E.	Stoneham
Fogg, Kermit W. J.	Waban
Gervais, Ralph E.	Wollaston
Glinski, James, Jr.	East Saugus
Gold, Isador	Westfield
Hale, Robert A.	Brookline
Kelly, Morton J.	Woburn
Macher, Frederick A.	Springfield
Magnuson, Victor B.	Medford
Molitor, Carl M.	Danvers
Orenstein, Samuel	Springfield
Quick, Donald L.	West Springfield
Rodgers, Allan S.	Chicopee Falls
Rollings, Phillip A.	Belmont
Ruddock, Stephen S.	East Longmeadow
daSilva, Aurelio A. C. F.	Fall River
Stott, Douglas B.	Andover
Sylvester, Francis H.	Somerville
Vautrinot, William B.	Hull
Wade, Paul D.	Somerville
Waite, Leonard S.	Wakefield
Walton, Sargent L.	Salem
Weissbrod, Paul F.	Holyoke
Wood, William W.	Shrewsbury
Young, Frank A.	Quincy

Appropriations.

The appropriations for the school for the fiscal year 1931, from December 1, 1930, to November 30, 1931, are here accounted for as follows:

Expenses of Schoolship.	Appropriation	Expenditures
Personal services	$46,600 00	$44,861 72
Travel, transportation and office expenses	1,000 00	978 73
Food	22,000 00	21,979 34
Furnishings and household supplies	1,100 00	1,454 27
Medical and general care	1,433 45	1,679 11
Heat, light, power, etc.	9,200 00	8,740 72
Repairs	2,800 00	3,452 03
Miscellaneous	5,025 00	4,228 14
Appropriations by the Commonwealth*	$89,158 45	$87,374 06
Unexpended balance		1,784 39
	$89,158 45	$89,158 45
Expenses of Commission.		
Personal services	$4,700 00	$4,700 00
Office supplies and equipment	300 00	266 68
Traveling and other services and expenses	2,009 50	2,026 42
Appropriation by the Commonwealth*	$7,009 50	$6,993 10
Unexpended balance		16 40
	$7,009 50	$7,009 50

*The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

The estimates for the year 1932 are as follows:

Expenses of Schoolship	$87,059
Expenses of Commission	2,297
Personal Services	4,730

Respectfully submitted,

WILLIAM E. McKAY, *Chairman.*
CLARENCE E. PERKINS.
THEODORE L. STORER.

Public Document No. 42

ASS.
OCS.
OLL.

The Commonwealth of Massachusetts

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1932

MASSACHUSETTS NAUTICAL SCHOOL
DEPARTMENT OF EDUCATION

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE
850. 12-'32. Order 7090.

The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION

PAYSON SMITH, *Commissioner of Education*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL

14 BEACON STREET, BOSTON

WILLIAM E. MCKAY, *Chairman*
CLARENCE E. PERKINS
THEODORE L. STORER

WILLIAM H. DIMICK, *Secretary*

REPORT OF THE COMMISSIONERS

To the Commissioner of Education

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1932, the forty-first annual report.

SCHOOL CALENDAR, 1932

Spring entrance examinations	March 24, 25, 26
Winter term ended	April 12
Spring graduation	April 12
Summer term commenced	April 20
"Nantucket" sailed from Boston	May 21
"Nantucket" arrived at Boston	September 13
Autumn entrance examinations	September 22, 23, 24
Summer term ended	September 27
Autumn graduation	September 27
Winter term commenced	October 24

THE OBJECT OF THE SCHOOL

The Massachusetts Nautical School is a vocational school, teaching seamanship, navigation, marine engineering and allied subjects, and educating young men for officers in the merchant marine. The work is maintained on board the *U.S.S. Nantucket*, berthed at the Navy Yard, Charlestown. Applicants must be residents of Massachusetts, between seventeen years and their twentieth birthday, and certified as to good character and standing. Competitive examinations are held twice a year in March and September; the applicants receiving the highest averages fill the existing vacancies in the school. Candidates are required to pass a rigid physical examination. Deposits amounting to $300 are required upon entering the school and another deposit of $150 at the beginning of the second year.

During the past forty years the school has been doing an important work in providing an educational opportunity for the young men of the State whose special interests and capabilities are on the sea. There has been a steadily increasing demand for the instruction offered by this school. The number of applications during the past year has exceeded that of any year since the War. In normal times, the demand for graduates from steamship owners and operators is greater than the supply.

The new American merchant marine requires well trained officers. With ships of increased size and costliness has come a demand for officers of high attainment. The need for technical schools for young men who are ambitious to succeed along special lines on shore is recognized, and the State Nautical Schools were established to fill a similar need for those desiring to enter upon a seafaring career.

The Work of the Year

Repairs have been made to the ship by the Navy Department at a cost of $29,180, divided as follows: repairs to the hull, $19,507; repairs to the engines and boilers, $9,271; replacement and repairs to navigational instruments, $402.

Several of the seacoast States, in preparation for the establishment of nautical schools, have requested detailed information regarding the work of the *Nantucket*. On May 31, 1932, the General Assembly of Virginia passed an Act establishing a nautical school, to be maintained in connection with the Virginia Polytechnic Institute. The United States Shipping Board has recently authorized the transfer of a vessel to the Navy Department; this ship will be loaned to the State of Louisiana for use as a training ship. Two of the maritime nations of Europe, desiring to perfect the work of their training ships, have made a study of the operation and management of the Massachusetts Nautical School, one country sending a representative to observe the practical instruction during the summer cruise.

Captain Armistead Rust, U.S.N., after giving twelve years of faithful and efficient service as superintendent, reached the compulsory retiring age of seventy years on July 12, and was succeeded by Captain Clarence A. Abele, U.S.N., on April 30. Captain Abele's long experience in the Navy, during which time he had many and varied duties, including command of a battleship, commanding a squadron of destroyers, instructor in schools, and handling thousands of men and young men, has particularly fitted him for the responsible duties of Superintendent.

The Wiggin Prize

At the graduation exercises held on September 27, 1932, Mr. Arthur M. Wiggin of Boston presented a prize to the graduate in each division making the greatest improvement during the year. A stop watch was awarded to the Seamanship graduate, and a kit of tools was given to the engineer graduate. These prizes were much appreciated.

The Schoolship Nantucket

The *Nantucket* is well suited for the work of training and educating young men for marine officers. The ship has the great advantage of being economical to operate. The hull being constructed of iron requires little attention from year to year. The plates are in a fine state of preservation showing little deterioration since the ship was launched. Previous to this year, the *Nantucket* was barkentine rigged. During the year, yards have been placed on the mainmast making the ship bark rigged, and 100 tons of ballast added. The sailing qualities of the ship under its new rig are excellent. The vessel stands up well under all plain sails, and with wind nearly abeam showed little list.

The suggestion is made occasionally that square rigged sailing vessels are obsolete, and that time spent in teaching students to handle vessels under sail is wasted. The Commissioners believe that training on a square rigged sailing vessel is abundantly justified.

The seamanship required on board a sailing vessel is far more comprehensive and valuable than would be obtained on a training vessel equipped only with steam.

A sailing vessel is more advantageous in the physical development of the cadets; and alertness, self-reliance and courage are developed to a larger extent on board a vessel which is dependent on sail power.

One who is trained under conditions obtaining on a vessel like the *Nantucket* should have little difficulty in handling any vessel, and in time of emergency, the knowledge gained by his training in a square rigger might prove invaluable.

The following countries have adhered to the policy of using sailing ships for training young men for the sea: Great Britain, Germany, France, Italy, Japan, Spain, Greece, Norway, Sweden, Belgium, Denmark, Holland, Portugal, Jugo Slavia, Argentine, Chili, Brazil, Finland, Poland.

The Practice Cruise

The summer cruise of the Schoolship *Nantucket* was very successful, not only in giving the cadets an opportunity to work out in practice the theoretical studies of the winter term, but also in developing their sense of responsibility and self-reliance under conditions of actual service. Although the usual run of weather was encountered including squalls and gales, most of the time the ship sailed under excellent weather conditions, and such bad weather as was experienced afforded opportunities for handling the ship under difficult conditions.

On September 8 when the ship was about one hundred and fifty miles from Montauk Point, Long Island, a storm of hurricane proportions was encountered. It was the most difficult test that the *Nantucket* has ever had to stand, but the vessel stood the test well, and was thoroughly staunch and seaworthy. No water of any amount was shipped on board and there was little damage to the sails or spars. Some of the boats were lost, and there were a few minor breaks in deck fittings, but the hull of the ship came through the storm in good condition. Other than the replacement of the boats, which will be done by the Navy Department, no repairs of any consequence will be required on account of the hurricane.

During the homeward passage across the Atlantic Ocean, the ship passed through the zone of the total eclipse of the sun. Photographs were taken of the eclipse and ten reports on different phases of the eclipse, observed on August 31 by the officers, cadets and members of the crew, were sent to the Hydrographer, Hydrographic Office, Washington, D. C. A letter of commendation was received from the Navy Department for the able manner in which the observations were reported.

Detailed Report on the Practice Cruise

Itinerary

LEFT—	ARRIVED AT—
Boston, May 21	Provincetown, May 22
Provincetown, May 26	Norfolk, Virginia, May 29
Norfolk, May 31	Ponta Delgada, Azores, June 13
Ponta Delgada, June 18	Plymouth, England, June 25
Plymouth, July 1	Amsterdam, Holland, July 3
Amsterdam, July 7	Copenhagen, Denmark, July 10
Copenhagen, July 14	Gothenburg, Sweden, July 14
Gothenburg, July 17	Hull, England, July 20
Hull, July 26	Cadiz, Spain, August 4
Cadiz, August 8	Gibraltar, August 9
Gibraltar, August 12	Madeira, August 16
Madeira, August 18	New London, September 10
New London, September 12	Boston, September 13

During the cruise the *Nantucket* made mileage as follows: under steam, 5,107; under steam and sail, 5,069; under sail, 1,283; total, 11,459.

The general health of the cadets was excellent. Routine drills and studies were carried out according to schedule, except as interrupted by weather conditions and unavoidable ship's work. Regular instruction in First Aid was given by the Medical Officer. Sail was carried whenever practicable. During the shakedown at Provincetown at the beginning of the cruise, sail drills were held twice daily, loosing and furling twice each time, and, when calm, setting sail; at these exercises the cadets were alert and executed the drills well.

Pulling boats were generally used as running boats; usually under oars, but, when conditions were favorable, also under sail. Man overboard drill was held frequently. The following typical examples are cited:

On June 1, while ship was under steam, the life boat was in the water in 0 minutes, 20 seconds; the buoy was picked up in 2 minutes, 20 seconds; and the lifeboat was hoisted and secured in 9 minutes.

On June 9, while the ship was under steam and all plain sail except topgallant sails, the lifeboat was in the water in 0 minutes, 45 seconds; the buoy was picked up in 3 minutes; and the boat was hoisted and secured in 13 minutes.

During the stay at Plymouth, many visitors were received on board. The Mayor of Plymouth and Commander Cartwright, R.N., connected with the Board of Trade, were especially interested in the system of training on board the *Nantucket*. Mr. Arthur B. Cook, United States Consul, and the Mayor of Plymouth, extended many courtesies to the officers and cadets.

At Amsterdam, ninety cadets visited the Island of Marken, and its unique fishing village. Members of the first class were taken on a tour of inspection of the harbor through the courtesy of the Harbor Master. The three hundredth anniversary of the founding of the National Museum was being held at Amsterdam while the ship was there.

In proceeding to Amsterdam from Copenhagen, the *Nantucket* passed through the Kiel Canal. At Copenhagen, marked courtesies were extended to the officers and cadets by the United States Charge D'Affaires, Mr. North Winship, and by the American Club.

The city of Hull was most generous in its hospitality, numerous moving picture houses being open to the cadets without charge at specified times. Parties of cadets visited the Municipal Nautical School and Beverly Cathedral; and a large party was entertained by the Lord Mayor at the Guild House. The Hull Corporation Open Air Swimming Baths were open free to the cadets.

The *Nantucket* sailed from Hull on July 26. On the night of August 3, a strong levanter was encountered, against which little headway could be made, and it was, therefore, decided to make Cadiz instead of proceeding to Gibraltar, as scheduled. The ship left Cadiz on August 8 and arrived at Gibraltar on August 9.

The Italian sail training ships, the *Amerigo Vespucci* and the *Christoforo Columbo*, the training squadron of the Italian Navy, were in the harbor of Funchal at the same time the *Nantucket* was there. Cadets were entertained at the Sailors Rest, Funchal, by the Rev. W. G. Smart, an English clergyman.

The Hurricane

The *Nantucket* was overtaken by a hurricane on September 8 when 149 miles 113 degrees from Montauk Point. Reports of the hurricane had been received from its first appearance in the West Indies and the positions given were plotted. At noon, September 6, the ship was 468 miles 116 degrees from Montauk Point. The storm centre at 10 A. M. that day was in latitude 28 N, longitude 78 W, moving north at ten miles an hour. The September pilot chart showed the general course of hurricanes in September as passing out to sea south of Cape Hatteras. It was decided that the best course was to make speed to the westward to keep on the navigable side of the storm centre. Accordingly a third boiler was cut in. On the 8th the ship was caught in the hurricane. While the ship rolled heavily, she rode well and comparatively little water was taken on board other than spray. The second cutter and the whale boat were carried away and were cut adrift. The dinghy was also carried away and was cut adrift. The motor boat was badly damaged. The gaskets of the storm spanker carried away and the sail was taken in. It was finally decided to get out the sea anchor and lie to, which was done, and the engine was at the same time stopped. The ship fell off ten to fifteen degrees and rolled as much as before, but seemed to ride a little more easily. Oil bags were put over the side but did not seem particularly effective. All hatches had been battened down early, only the waist hatch being kept for use, with its hatch cover snugly secured, and the skylight covers were battened in place. The head of both the spanker and the trysail were somewhat slatted by the wind, although the former was furled and the latter was brailed in. The starboard foretopmast studdingsail, secured in the starboard lower rigging, lashed adrift and was cut away.

From later reports of the storm's course, it appears that the centre passed about eighty miles to the eastward of the ship at about 10 P. M., September 8. The wind blew from the northeast continuously from 3 P. M. on the 7th until 4 A. M. on the 9th. It reached hurricane proportions shortly after noon on the 8th and continued until 4 A. M. on the 9th, when it shifted to north and diminished in force.

The main radio set was put out of commission by salt water spray, but the

short wave set remained operative. The cadets behaved excellently throughout the storm. The engineer cadets and the coal passers carried through also in an excellent manner.

Coal Consumption

On hand and received	855 tons
Expended	812 tons
Remaining	43 tons

Detail

Moving ship	579 tons
Dynamos and auxiliaries	190 tons
Distilling	38 tons
Galleys	5 tons
Total	812 tons

Graduation Exercises

The seventy-fifth graduation exercises were held in Building 5, Navy Yard, Charlestown, on Tuesday, April 12, 1932, at 11 A. M. The program was as follows:

Invocation: Rev. Abbot Peterson, Brookline.
Address by Presiding Officer: Captain William E. McKay, Chairman of the Board.
Address by Admiral William S. Sims, U.S.N., Retired.
Presentation of Alumni Association Prizes by Commissioner Theodore L. Storer:
To the graduate in the Seamanship Class doing the best all round work: Thurston Hartford of Wollaston.
To the graduate in the Engineer Class doing the best all round work: Stuart K. Mills of Fall River.
Presentation of Maritime Association Prizes by Mr. Gerrit Fort:
To the graduate in the Seamanship Class standing highest in professional studies: John A. Willoughby of Edgartown.
To the graduate in the Engineer Class standing highest in professional studies: Stuart K. Mills of Fall River.
Presentation of Prize awarded by the Boston Marine Society by Captain George E. Eaton, Superintendent, 2nd Lighthouse District:
To the graduate possessing the most qualities making the best shipmaster including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership: Robert E. Thompson of East Boston.
Presentation of Bibles:—Mr. Peterson. (The Bibles are the gift of the Massachusetts Bible Society.)
Presentation of Diplomas:—Captain Armistead Rust, U.S.N., Superintendent.

The seventy-sixth graduation exercises were held on board the *Nantucket* at the Navy Yard, Charlestown, on Tuesday, September 27, 1932, at 11 A. M. The program was as follows:

Invocation: Rev. Samuel M. Lindsay, D.D. of Brookline.
Presiding Officer: Captain William E. McKay, Chairman of the Board.
Address: Mr. Theodore L. Storer, Commissioner, Massachusetts Nautical School.
Address: Rear Admiral Henry F. Bryan, U.S.N., Retired.
Presentation of Boston Marine Society Prize by Captain George E. Eaton, Superintendent, 2nd Lighthouse District:
To the graduate possessing the most qualities making the best shipmaster, including aptitude, prompt and cheerful obedience to his

superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership: Joseph W. Lermond of Whitinsville.

Presentation of Prizes by Mr. Arthur M. Wiggin:

To the graduate in the Seamanship Class making the greatest improvement in all round work during the past year: Richard C. Root of Plainville.

To the graduate in the Engineer Class making the greatest improvement in all round work during the past year: T. Arthur Neil of Waltham.

Presentation of Wood-Whitman Memorial Prize by Commissioner Theodore L. Storer:

To the graduate of the year standing highest in Seamanship and Navigation: Joseph W. Lermond of Whitinsville.

The following graduates received the highest mark in the Alumni Association competition (doing the best all round work):

Seamanship Class: Joseph W. Lermond of Whitinsville.

Engineer Class: Theodore P. Ebsary of Charlestown.

Presentation of Bibles: Dr. Lindsay.

Presentation of Diplomas: Mr. Harry E. Gardner, Massachusetts Department of Education.

Lectures

Winter Term, 1931–32

1931

December 11. Hubert W. Perry: Musical Entertainment.

December 18. Mr. Walter K. Queen: Motion Pictures.

1932

January 8. Dr. Charles E. Park. Subject: "The Clipper Ships."

January 15. Everett W. Lord. Subject: "International Relations."

January 22. Captain Herman T. Parker. Subject: "Qualifications for an Officer in the Merchant Marine."

January 29. Captain Felix Riesenberg. Subject: "A Sea Career and What it Means."

Officers and Instructors

Clarence A. Abele, Captain, U.S.N. (retired), Superintendent of Schoolship.
Norman E. Merrill (graduate M.N.S.), Schoolship Executive Officer.
Robert M. Gray, Lieutenant, U.S.N.R. (graduate M.N.S.), Schoolship Navigator.
Richard T. Rounds (graduate M.N.S.), Schoolship Watch Officer.
Nicolai S. Silvertsen, Schoolship Watch Officer.
Ervin L. Kelley, Lieutenant, U.S.N.R. (graduate M.N.S.), Chief Marine Engineer.
Norman L. Queen (graduate M.N.S.), Assistant Marine Engineer.
John E. Wright, Schoolship Instructor in Mathematics.
Tobias Foss, Schoolship Instructor in Mechanical Drawing.
Robert S. Palmer, M.D., Schoolship Surgeon.
Charles Parker, Schoolship Paymaster.

Cadet Officers of the Massachusetts Nautical School

Summer Term, 1932

Navigation

Joseph W. Lermond . . . . . *Senior Cadet Officer*
Frederick Austin . . . . . *Junior Cadet Officer*

Engineering

Theodore P. Ebsary . . . . . *Senior Cadet Engineer Officer*
William B. Paterson . . . . . *Junior Cadet Engineer Officer*

Winter Term, 1932–33

Navigation

Arthur W. Lapine . . . . . *Senior Cadet Officer*
Harold D. Howes . . . . . *Junior Cadet Officer*

Engineering

John D. McGilvray . . . . . *Senior Cadet Engineer Officer*
Richard R. Davis . . . . . *Junior Cadet Engineer Officer*

Cadets Admitted, Graduated, and Honorably Discharged, from 1893 to 1932 Inclusive

	Admitted	Graduated			Honorably discharged	Withdrawn, dismissed, dropped	Number connected with the school
		Seamanship Class	Engineer Class	Totals			
1893	141	–	–	–	29	24	138
1894	63	–	–	–	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	138
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
1929	71	23	29	52	12	7	189
1930	62	33	19	52	8	3	180
1931	74	38	19	57	6	9	191
1932	50	23	22	45	2	3	169
Total	2,866	809	719	1,528	728	492	

Membership of the School

Graduating Class, April, 1932

Seamanship Division

Hartford, Thurston . . . . . Wollaston
Willoughby, John A. . . . . Edgartown
Thompson, Robert E. . . . . East Boston
Rosol, Emile . . . . . Northbridge
Cowell, Thomas E. . . . . Hingham
Roscoe, George L. . . . . Dover
Brozek, John J. . . . . Three Rivers

Hansford, Harold	Lawrence
Ingram, William H.	Weston
Bey, Wilbur A.	Holyoke

Engineering Division

Mills, Stuart K.	Fall River
Foote, Warren B.	Framingham
Gill, John G.	West Newton
Atkinson, Leo T.	Cambridge
Uebel, William R.	Medford
Charette, Normand R.	New Bedford
Forsey, Robert K.	Springfield
Taggart, Stuart H.	West Springfield

Graduating Class, October, 1932

Seamanship Division

Lermond, Joseph W.	Whitinsville
Austin, Frederick	Mattapan
Burbank, A. Murray	Watertown
Page, Lucian T.	South Weymouth
Chesley, Carl F.	Lexington
Condé, Jesse C., Jr.	Everett
Connors, William J.	Cambridge
Melbye, Ernest M.	Wrentham
Lumbert, Chesley W.	North Scituate
Root, Richard C.	Plainville
Shepard, Norman H.	Beverly
Ross, James R.	Roxbury
Haggett, Gordon P.	South Weymouth

Engineering Division

Ebsary, Theodore P.	Charlestown
Paterson, William B.	Quincy
MacDonald, James, Jr.	Atlantic
Montgomery, William R.	Melrose
Hargraves, William E.	New Bedford
Weir, William	Rockland
Baketel, George S.	Methuen
Macdonald, Neil	Weston
McGowan, Edward R.	Gloucester
Campbell, Clarence H.	Arlington
Smith, Raymond C.	Westfield
Bowen, Robert J.	Salem
Clark, Kenneth H.	West Bridgewater
Neil, T. Arthur	Waltham

Class to Graduate, April, 1933

Seamanship Division

Lapine, Arthur W.	Lynn
Jakeman, William C.	Watertown
Mehegan, Alfred C.	Dorchester
Gertsen, J. Douglas	Mattapan
Howes, Harold D.	Hyannis
Healy, Joseph D.	Dorchester
Brown, Frederick S.	Belmont
Wallace, Arthur J., Jr.	Newtonville
Nichols, John A.	Malden
Farrell, Thomas P.	Bridgewater
Hall, Edward H.	Arlington

Keefe, Martin D., Jr.	Roslindale
Rice, C. Marsh	Lynn
Joyce, Arthur J.	Watertown
Mallard, Philip W.	Salem
Pinto, Reginald F.	Vineyard Haven
Pike, John F.	West Roxbury
Lamb, William H.	Rockland
Woodward, Clifford W.	Plainville
Hemeon, William D.	Salem
Anderson, Arthur L., Jr.	Hyde Park
Beal, Gordon F.	Nantasket
Gafney, James F.	Ware
Gately, John P.	Watertown
Taylor, Reynold A.	Norfolk Downs
McGrath, Christopher J., Jr.	Newtonville

Engineering Division

McGilvray, John D.	Lawrence
Sullivan, Joseph F.	Fall River
Davis, Richard R.	East Pepperell
Grahn, Peter J.	Allston
Rush, Joseph E.	Jamaica Plain
Evans, Richard D., Jr.	Fall River
Berry, Horace A.	Malden
Smith, George D.	East Walpole
Clark, William T.	Malden
Arold, Frederick P.	Lawrence
Gilman, Newell J.	West Springfield
Knox, Kenneth G.	West Medford
Small, Gordon W.	Everett

Class to Graduate, October, 1933

Seamanship Division

Berg, Martin D.	Medford
Costello, Martin J.	South Boston
Magnuson, Victor B.	Medford
Waite, Leonard S.	Wakefield
Kelly, Morton J.	Woburn
Wood, William W.	Shrewsbury
Sylvester, Francis H.	Somerville
Vautrinot, William B.	Hull
Walton, Sargent L.	Salem
Molitor, Carl M.	Danvers
Dougherty, Vincent E.	Stoneham
Wade, Paul D.	Somerville
Rollings, Phillip A.	Seekonk

Engineering Division

daSilva, Aurelio A. C. F.	Worcester
Rodgers, Allan S.	Chicopee Falls
Anderson, Russell W.	Worcester
Young, Frank A.	Quincy
Gervais, Ralph E.	Wollaston
Creed, Donald L.	Marshfield
Orenstein, Samuel	Springfield
Glinski, James, Jr.	East Saugus
Macher, Frederick A.	Springfield
Adler, Harold	Springfield
Stott, Douglas B.	Andover
Currier, Arthur R.	Shirley

Fogg, Kermit W. J.	Waban
Weissbrod, Paul F.	Holyoke
Quick, Donald L.	West Springfield
Gold, Isador	Westfield
Bellucci, Vittorio P.	Mansfield
Elms, W. Roland	Arlington

Class to Graduate, April, 1934

Hillner, Arthur C.	Cambridge
Donovan, Thomas D.	Dorchester
Hickey, John R.	Newton Centre
Sztucinski, Walter J.	Haverhill
Harrington, George H.	Somerville
Tennett, Gordon W.	Winthrop
Gay, Howard E.	Plainville
Waihela, Paul	Norwood
Andrews, Edward G.	East Braintree
deMille, Eric B.	Winthrop
Dranka, Stephen J.	Three Rivers
Collins, Allen G.	West Springfield
Foley, John M.	Worcester
Rice, Marvin O.	Gloucester
Johnston, James M.	Brookline
Arnold, Norman W.	Cambridge
Henning, Arthur G., Jr.	Newton Centre

Class to Graduate, October, 1934

(Alphabetically arranged)

Anderson, Lars N.	East Braintree
Berger, Richard E.	Winthrop
Brodbine, Francis R., Jr.	Revere
Champeau, Arthur E.	Wollaston
Colligen, William H.	Newtonville
Cutler, Charles F., Jr.	Lynn
Cutter, Howell G.	Wakefield
Dzingelevich, Victor S.	Haverhill
Hammond, Edward G.	Quincy
Helin, Olavi	Gardner
Herbert, Harlan P.	Shrewsbury
Hodgson, James T., Jr.	Taunton
Holden, John H.	Cambridge
Howell, Charles R.	Worcester
Hyllestad, Bernard H.	Monument Beach
Jagling, Thomas A.	Hudson
Lawrence, Beardsley, Jr.	Sharon
McCray, Charles E., Jr.	Shrewsbury
McElholm, Joseph L.	Lowell
Mifflin, Chester L.	Medford
Mitchell, John F.	Worcester
Nickerson, Douglas E.	Waltham
Packlick, Stanley T.	Housatonic
Peirce, George H.	Leicester
Pelton, George K.	Manchester
Pond, Henry G.	Worcester
Smith, George A.	Holyoke
Swiniarski, John A.	Salem
Talbot, George E., Jr.	Whitinsville
Tawse, George D.	Beverly
Tonis, Richard	Brockton
Warren, Augustus W., Jr.	Middleboro

Appropriations

The appropriations for the school for the fiscal year 1932, from December 1, 1931, to November 30, 1932, are accounted for as follows:

Expenses of Schoolship	Appropriation	Expenditures
Personal services	$46,000.00	$45,585.25
Travel, transportation and office expenses	1,000.00	1,735.13
Food	21,000.00	20,945.05
Furnishings and household supplies	1,100.00	1,289.15
Medical and general care	1,050.00	1,555.04
Heat, light, power, etc.	8,750.00	7,585.08
Repairs	2,200.00	2,237.44
Miscellaneous	3,400.00	3,525.63
Repairs and renewals (brought forward from 1931 appropriation)	1,108.38	1,108.38
Appropriation by the Commonwealth*	$85,608.38	$85,566.15
Unexpended balance		42.23
	$85,608.38	$85,608.38
Expenses of Commission		
Personal services	$4,700.00	$4,700.00
Office supplies and equipment	275.00	271.32
Traveling and other services and expenses	2,000.00	2,001.03
Appropriation by the Commonwealth*	$6,975.00	$6,972.35
Unexpended balance		2.65
	$6,975.00	$6,975.00

*The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

The Commonwealth has also been reimbursed during the year to the amount of $6,648.32 received from tuition and other fees.

The estimates for the year 1933 are as follows:

Expenses of Schoolship	$84,581
Expenses of Commission	2,307
Personal Services	4,745

Respectfully submitted,

WILLIAM E. McKAY, *Chairman.*
CLARENCE E. PERKINS.
THEODORE L. STORER.

Federal Legislation

Authority of the United States

H. R. 24145. Approved March 4, 1911.

(Original Act passed June 20, 1874.)

An Act for the Establishment of Marine Schools, and for Other Purposes

That the Secretary of the Navy, to promote nautical education, is hereby authorized and empowered to furnish, upon the application in writing of the governor of a State, a suitable vessel of the navy, with all her apparel, charts, books, and instruments of navigation, provided the same can be spared without detriment to the naval service, to be used for the benefit of any nautical school, or school or college having a nautical branch, established at each of the following ports of the United States: Boston, Philadelphia, New York, Seattle, San

Francisco, Baltimore, Detroit, Saginaw (Michigan), Norfolk, and Corpus Christi, upon the condition that there shall be maintained at such port a school or branch of a school for the instruction of youths in navigation, steamship-marine engineering, and all matters pertaining to the proper construction, equipment, and sailing of vessels or any particular branch thereof.

SECTION 2. That a sum not exceeding the amount annually appropriated by any State or municipality for the purpose of maintaining such a marine school or schools or the nautical branch thereof is hereby authorized to be appropriated for the purpose of aiding in the maintenance and support of such school or schools: *provided, however,* that appropriations shall be made for one school in any port heretofore named in section one and that the appropriation for any one year shall not exceed twenty-five thousand dollars for any one school.

SECTION 3. That the President of the United States is hereby authorized, when in his opinion the same can be done without detriment to the public service, to detail proper officers of the navy as superintendents of or instructors in such schools: *provided,* that if any such school shall be discontinued, or the good of the naval service shall require, such vessel shall be immediately restored to the Secretary of the Navy and the officers so detailed recalled: *and provided further,* that no person shall be sentenced to or received at such schools as a punishment or commutation of punishment for crime.

SECTION 4. That all laws and parts of laws in conflict herewith are hereby repealed.

STATE LEGISLATION

General Laws of Massachusetts, 1932

CHAPTER 15

Department of Education

SECTION 22. There shall be a board of commissioners of the Massachusetts nautical school serving in the department and consisting of three citizens of the commonwealth, one of whom shall annually before July 1st be appointed by the governor, with the advice and consent of the council, for three years from said day.

SECTION 23. The commissioners shall serve without compensation, but shall be reimbursed for expenses actually incurred in the performance of their official duties.

CHAPTER 74

Vocational Education

SECTION 49. The board of commissioners of the Massachusetts nautical school shall provide and maintain a nautical school for the instruction of students in the science and practice of navigation, accommodations therefor on board a proper vessel, books, stationery, apparatus and supplies needed in the work thereof, and appoint and remove necessary instructors and other employees, determine their compensation, fix the terms upon which students shall be received and instructed therein and discharged therefrom, make all regulations necessary for its management and provide from time to time for cruises in or from Boston harbor.

SECTION 50. The board may receive from the federal government, and use for the accommodation of the school, vessels detailed by the secretary of the navy.

SECTION 51. In addition to the advances authorized by section twenty-three of chapter twenty-nine, the state treasurer shall, upon requisition by the board to the comptroller, make an advance for said cruises of not exceeding ten thousand dollars for six months to the commanding officer of the vessel detailed therefor, who shall give bond in the sum of ten thousand dollars, with sureties approved by the governor and council, for its proper disbursement. Said advance shall be accounted for by properly approved vouchers within thirty days after the termination of said cruises.

SECTION 53. The commissioner shall make an annual report relative to the Massachusetts nautical school.

Public Document No. 42

MASS.
DOCS.
COLL.

THE COMMONWEALTH OF MASSACHUSETTS

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1933.

MASSACHUSETTS NAUTICAL SCHOOL
DEPARTMENT OF EDUCATION

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE

800. 2-'34. Order 508.

THE COMMONWEALTH OF MASSACHUSETTS

DEPARTMENT OF EDUCATION

PAYSON SMITH, *Commissioner of Education*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL

100 NASHUA STREET, BOSTON

WILLIAM E. MCKAY, *Chairman*
CLARENCE E. PERKINS
THEODORE L. STORER

WILLIAM H. DIMICK, *Secretary*

REPORT OF THE COMMISSIONERS

To the Commissioner of Education

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1933, the forty-second annual report.

SCHOOL CALENDAR, 1933

Spring entrance examinations	March 30, 31, April 1
Winter term ended	April 4
Spring graduation	April 4
Summer term commenced	April 17
"Nantucket" sailed from Boston	May 13
"Nantucket" arrived at Boston	September 19
Autumn entrance examinations	September 21, 22, 23
Summer term ended	September 26
Autumn graduation	September 26
Winter term commenced	October 16

A UNIQUE SCHOOL

The Massachusetts Nautical School is unique among the educational activities of the State. Its classes are held on the decks of a former naval vessel. The course of study continues throughout the year, there being two entering classes and two graduations a year. The school provides a technical education, and the annual practice cruise establishes contact and experience with foreign ports. The school is doing its part in maintaining the fine traditions of Massachusetts on the sea.

Instruction is given in Seamanship and Marine Engineering; and the school, established in 1891, provides for the needs of the young men of the State who desire to prepare for a seafaring life.

The course of study occupies two years. The age limit of applicants is from seventeen to the twentieth birthday. All applicants, together with their parents, must be residents of Massachusetts. Admission to the school is by competitive examination, the entrance examinations being held in March and in September.

The first year deposits amount to $300, and the second year deposits to $150. During the winter term, from October to May, the ship is berthed at the Navy Yard, Charlestown. During the summer term, from May until October, the ship is cruising in European waters.

On March 23, 1933, the United States Shipping Board passed the following resolution: The United States Shipping Board in the interest of an efficiently manned American merchant marine hereby declares that as a matter of policy, it endorses the maintenance of schools for nautical education by the respective States, and urges the continuance of the present State nautical schools; and will take whatever action is within its power to encourage other State educational systems to adopt some form of nautical instruction in their schools.

Work of the Year

Through the courtesy of Rear Admiral Louis M. Nulton, U. S. N., and his successor, Rear Admiral Henry H. Hough, U. S. N., Commandants of the First Naval District, the ship was berthed during the winter term at the Navy Yard, Charlestown, and space in one of the buildings in the Yard has been assigned to the school for classrooms.

In January, the tuition fee was increased from $60 to $100 per year, applicable to all cadets who had not completed their payments for tuition.

During the spring overhaul, the Navy Department made repairs to the *Nantucket* amounting to $22,476. and supplied the school with a range finder and a direction finder.

While the annual practice cruise covered the usual period of time, fewer ports were visited and the mileage was reduced about fifteen per cent. A detailed report of the cruise is given below. During the cruise 3,326 miles were made under sail alone. Although occasionally rough weather was encountered, the weather on the whole was favorable, and the extensive mileage under sail alone afforded exceptional opportunity for practical seamanship, and the consumption of coal was reduced.

The Commissioners have on previous occasions emphasized the advantages of training young men in a vessel equipped with both sail and steam power. The seamanship and training thus acquired is far more comprehensive and valuable than could be obtained in a steam vessel of a commercial type. In this connection, it is interesting to note that in July of this year, the new English training ship *Arethsua* was opened for service with impressive ceremonies at which Prince George was the principal figure. The *Arethusa* is a four masted bark, formerly called the *Peking,* and this indicates the opinion of the British Government as to the value of training in sailing vessels even though the future career of these young officers may be entirely in steam vessels.

On March 15 William E. McKay of Boston was reappointed a Commissioner of the school, and on October 11 Theodore L. Storer of Cambridge was reappointed a Commissioner.

Detailed Report on the Practice Cruise

Itinerary

LEFT—	ARRIVED AT—
Boston, May 13	Gloucester, May 14
Gloucester, May 19	Ponta Delgada, Azores, June 1
Ponta Delgada, June 8	Southampton, England, June 16
Southampton, June 23	Rouen, France, June 24
Rouen, July 3	Lisbon, Portugal, July 11
Lisbon, July 19	Gibraltar, July 25
Gibraltar, August 1	Madeira, August 7
Madeira, August 15	New Bedford, September 7
New Bedford, September 11	Vineyard Haven, September 11
Vineyard Haven, September 18	Boston, September 19

During the cruise the *Nantucket* made mileage as follows: under steam, 3,572 miles; under steam and sail, 2,397 miles; under sail alone, 3,326 miles; total, 9,295 miles .

While in Gloucester Harbor much was accomplished in the way of shaking down. Sail and boat drills were held and the boating was done entirely by pulling boats.

On the voyage from Gloucester to Ponta Delgada, studies and routine drills were held except as interrupted by adverse weather and necessary ship's work. First Aid instruction was given by the Surgeon. There was much handling of sail, and life boat drills were held as follows: May 24, the buoy was picked up in six minutes, and the boat hoisted in eleven minutes; May 25, the buoy was picked up in six minutes thirty seconds, and the boat was hoisted in twelve minutes; May 26, the buoy was picked up in six minutes, and the boat hoisted in nineteen minutes.

May 30 was observed as a holiday. All hands were assembled aft, and the Superintendent addressed them on the significance of the day. At noon the colors were half-masted and a minute of silence was observed, after which a cadet guard fired three volleys and the bugler sounded taps.

Among the ships in the harbor at Ponta Delgada at the time of the arrival of the *Nantucket,* was the Portuguese Naval Training Ship *Sagres,* a full rigged ship built of steel, which operates mainly under sail.

En route from Ponta Delgada to Southampton, lift boat drills were held as follows: June 9, boat lowered in one minute, buoy picked up in three minutes, boat hoisted in nine minutes; June 15, boat lowered in one minute, buoy picked up in four minutes, boat hoisted in nine minutes.

On Sunday, June 18, in Southampton, the Rev. G. W. Nightingale from the Missions to Seamen conducted divine service on board. At three o'clock on the afternoon of the same day, the Mayor of Southampton, accompanied by the Sheriff, called on board the *Nantucket* in the robes of their offices, preceded by a bearer carrying mace and paddle. The Corporation of Southampton extended to the cadets one hundred and fifty free passes on trams and busses of the town. The Mayor also opened the town baths to the cadets free of charge.

Passes were received to inspect the Canadian Pacific Liner *Empress of Britain,* the latest of the British transatlantic ships, and officers and first class cadets visited the ship. Three cutters were entered in a water carnival with Mr. Merrill, Mr. Gray and Mr. Sivertsen in charge of the boats.

The stay of the *Nantucket* at Rouen was most satisfactory. The Commissioner of Police placed two guards on the dock alongside for ship's assistance, and a plain clothes man with a knowledge of English assigned to the ship, was of great help as interpreter and guide. On Saturday, July 1, the Mayor of Rouen held a reception at the Hotel de Ville in honor of officers and cadets. Five officers and twenty-five cadets attended. After an address of welcome by the Mayor, the party was shown through the City Hall. Everyone present was given a handsome booklet of Rouen commemorative of the five hundredth anniversary of the death of Jeanne d'Arc, and one copy for each remaining member of the entire ships' company was sent on board the *Nantucket.*

The cadets attended Church services on shore. Right Reverend Donohue of Notre Dame University, Indiana, and the Chaplain of the English Chapel visited the ship. Moored in the heart of the city, there were many people on the dock at all times during daylight; and each afternoon the ship was opened to visitors, many hundreds coming on board including many Americans.

July 4 was observed as a holiday at sea off the coast of France. At quarters in the morning, the pewter mugs, presented by the Mayor and Sheriff of Southampton, were awarded to the winning and the second crews in the boat races at Southampton.

Shortly before the *Nantucket* left Lisbon, an Italian squadron of four ships anchored in the harbor.

The ship was in company of the Pennsylvania Nautical Schoolship *Annapolis* for a short time during the stay in Gibraltar. Captain John F. Hines, U. S. N., of the *Annapolis* requesting that a radio operator be sent on board his ship to see if anything could be done to improve the sending of the *Annapolis* transmitter, a relay coil was renewed, after which normal radiation was obtained

On the evening of August 5, when about 240 miles off Madeira, the *Nantucket* was in communication with the New York State Schoolship *Empire State,* which was en route to Gibraltar.

On August 5 life boat drills were held while the ship was under steam. The time was as follows: boat in water, zero minutes, fifty seconds, buoy picked up in four minutes fifteen seconds, boat hoisted in twelve minutes twenty seconds.

At Funchal, Madeira, the usual watch and watch liberty was granted. Routine drills were held. There was swimming over the side two or three times daily. Boats were sent out under sail daily. A cutter race under oars between cadets of the third and fourth classes was warmly contested and created much interest. The third class crew won by a narrow margin. The Reverend W. G. Smart of the Sailors Rest entertained thirty cadets of each watch on successive days.

A few hours after leaving Funchal on August 15, the wind came out favorably, the engine was uncoupled and the ship proceeded under sail until the evening of August 18, when the wind died out and the engine was uncoupled and the ship again proceeded under sail until August 30, making a total of 1,811 miles under sail alone for the Madeira-New Bedford leg of the cruise.

The radio was very efficiently handled. Three or four pages of press news from home were received daily, generally from Tuckerton, New Jersey, but occasionally when that station was interrupted, from San Francisco. Full weather reports were received daily from the most appropriate stations.

Routine studies and drills were carried out in accordance with the schedule except that during the sailing, life boat drills were omitted. Life boat drill was held on September 1 while the ship was under steam and the time was as follows: boat in water in two minutes thirty seconds, buoy picked up in five minutes, boat hoisted in ten minutes thirty seconds.

Examinations were conducted and finished in the week of August 28.

During the cruise divine services were held each Sunday conducted by the Executive Officer. They were largely attended by members of all the classes.

On Sunday afternoon while the ship was anchored in New Bedford Harbor, it was estimated that more than five hundred visitors came on board the *Nantucket*.

In addition to the usual inspections by the Commissioners, an official inspection of the ship and school was made by Commissioner Storer, accompanied by Mr. Dimick, the Secretary of the Board, duirng the passage of the ship from Vineyard Haven to Boston, via the Cape Cod Canal.

The following is the report on the fuel consumed during the cruise of 1933, from May 13 to September 20 inclusive:

Coal Consumption

On hand and received	621.7
Expended	583.2
Remaining	38.5

Detail

Moving ship	325.7
Dynamos and auxiliaries	198.5
Distilling	53.8
Galleys	5.2
Total	583.2

Graduation Exercises

The seventy-seventh graduation exercises were held on board the *Nantucket* at the Navy Yard, Charlestown, on Tuesday, April 4, 1933, at 11 A. M. The program was as follows:

Invocation: Dr. George H. Spencer, D. D., Secretary of the Massachusetts Bibble Society.

Presiding Officer: Captain William E. McKay, Chairman of the Board.

Address: Mr. Clarence E. Perkins, Commissioner, Massachusetts Nautical School.

Address: Rear Admiral Louis M. Nulton, U. S. N., Commandant First Naval District.

Address: Captain Henry L. Wyman, U. S. N., Harvard University.

Presentation of Boston Marine Society Prize by Captain George E Eaton, Superintendent, Second Lighthouse District:

To the graduate possessing the most qualities making the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, intergrity, force of character, and ability to attain and maintain leadership: Arthur W. Lapine of Lynn.

Presentation of Prizes by Mr. Arthur M. Wiggin of Brookline:

To the graduate in the Seamanship Class making the greatest improvement in all round work during the past year: Arthur W. Lapine.

To the graduate in the Engineer Class making the greatest improvement in all round work during the past year: Joseph E. Rush of Jamaica Plain.

Presentation of Bibles: Dr. George H. Spencer (The Bibles are the gift of the Massachusetts Bible Society.)

Presentation of Diplomas: Captain Clarence A. Abele, U. S. N., Superintendent.

The seventy-eighth graduation exercises were held on board the *Nantucket* at the Navy Yard, Charlestown, on Tuesday, September 26, 1933, at 11 A. M. The program was as follows:

Invocation: Rev. Arthur L. Kinsolving, Trinity Church, Boston.

Presiding Officer: Captain William E. McKay, Chairman of the Board.

Address: Mr. Clarence E. Perkins, Commissioner, Massachusetts Nautical School.

Address: Mr. Albert T. Gould, Chairman of the Governing Board, Maritime Association, Boston Chamber of Commerce.

Address: Rear Admiral Henry H. Hough, U. S. N., Commandant, First Naval District.

Presentation of Prize awarded by the Boston Marine Society by Mr. Albert T. Gould:

To the graduate possessing the most qualities making the best shipmaster including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership: Victor B. Magnuson of Medford.

Presentation of Wood-Whitman Memorial Prize by Commissioner Theodore L. Storer:

To the graduate of the year standing highest in Seamanship and Navigation: J. Douglas Gertsen of Mattapan.

Presentation of Prizes by Mr. Arthur M. Wiggin:

To the graduate in the Seamanship Class making the greatest improvement in all round work during the past year: Vincent E. Dougherty of Stoneham:

To the graduate in the Engineer Class making the greatest improvement in all round work during the past year: Frank A. Young of Quincy.

Presentation of Bibles: Dr. Kinsolving.

Presentation of Diplomas: Dr. Payson Smith, Massachusetts Commissioner of Education.

Lectures

Winter Term, 1932-33

1932		
November	18.	Hubert W. Perry: Musical Entertainment.
December	9.	Motion Pictures furnished by Navy Department. Subjects: "Big Deeds." "Queen of the Waves."
December	16.	Captain George E. Eaton. Subject: "Aids to Navigation."
1933		
January	6.	Captain Walter K. Queen. Travel talk.
January	13.	Motion pictures furnished by Navy Department. Subjects: "Wizardry of Wireless." "Panama Canal."
January	27.	Mr. John Stewart. Subject: "Boiler Inspection."
February	3.	Captain Francis X. Landrey. Subject: "Stevedoring."
February	10.	Mr. Everett W. Lord. Subject: "The Advantages of a Nautical Education with Personal Experiences."
February	17.	Motion Pictures furnished by Navy Department. Subjects: "The Electric Ship." "Bituminous Coal Mining."
February	24.	Professor Eldon R. James. Subject: "Admiralty Law."
March	3.	Motion Pictures furnished by Navy Department. Subjects: "The Steam Turbine." "Romance of Power.'
March	10.	Captain Oscar C. Haines. Subject: "The United States Steamboat Regulations."

Officers and Instructors

Clarence A. Abele, Captain, U. S. N. (retired), Superintendent of Schoolship.

Norman E. Merrill (graduate M. N. S.), Schoolship Executive Officer.

Robert M. Gray, Lieutenant, U. S. N. R. (graduate M. N. S.), Schoolship Navigator.

Richard T. Rounds (graduate M. N. S.), Schoolship Watch Officer.

Nicolai S. Sivertsen, Schoolship Watch Officer.

Ervin L. Kelley, Lieutenant, U. S. N. R. (graduate M. N. S.), Chief Marine Engineer.

Norman L. Queen (graduate M. N. S.), Assistant Marine Engineer.

John E. Wright, Schoolship Instructor in Mathematics.

Tobias Foss, Schoolship Instructor in Mechanical Drawing.

Burton S. Munro, M. D., Schoolship Surgeon, Summer Term.

Robert S. Palmer, M. D., Schoolship Surgeon, Winter Term.

Charles Parker, Schoolship Paymaster.

Graduates of the School in 1933

The following is a list of the seventy graduates of 1933, the names of their home towns, and the vessels on which they are serving:

Name	Residence	Position	Vessel or Service
Harold Adler	Springfield	S. S. Santa Paula	Grace Line
Arthur L. Anderson, Jr.	Hyde Park	S. S. President Garfield	Dollar Line
Russell W. Anderson	Worcester		
Frederick P. Arold	Lawrence	S. S. Coastwise	Mystic Line
Gordon F. Beal	Nantasket	S. S. Kansas	Cities Service Line
Vittorio P. Bellucci	Mansfield		
Martin D. Berg	Medford	S. S. Columbian	American Hawaiian Line
Horace A. Berry	Malden	S. S. Examiner	American Export Line
Frederick S. Brown	W. Newbury	At sea	
William T. Clark	Malden	S .S. L.J. Drake	Standard Oil Co.
Martin J. Costello	S. Boston	S. S. Frederick R. Kellogg	Standard Shipping Co.
Donald L. Creed	Marshfield		U. S. Coast Guard
Arthur R. Currier	Shirley		
Richard R. Davis	E. Pepperell	At sea	American Export Line
Vincent E. Dougherty	Stoneham	S. S. Examiner	American Export Line
W. Roland Elms	Arlington	S. S. F. Q. Barstow	Standard Shipping Co.
Richard D. Evans, Jr.	Fall River	S. S. Ida Hay Atwater	Atwater Coal Co.
Thomas P. Farrell	Bridgewater	S. S. Antietam	Penn Oil Co.
Kermit W. J. Fogg	Boston	At sea	
James F. Gafney	Ware		U. S. Coast Guard
John P. Gately	Watertown	S. S. Exarch	American Export Line
J. Douglas Gertsen	Mattapan	S. S. Peter Crowell	Mystic Line
Ralph E. Gervais	Wollaston	S. S. H. H. Rogers	Standard Oil Co.
Newell J. Gilman	W. Springfield	S. S. Steel Seafarer	Isthmian Line
James Glinski, Jr.	E. Saugus	S. S. Walter A. Luckenbach	Luckenbach Line
Isador Gold	Westfield	S. S. Spencer Kellogg	Kellogg Steamship Corp.
Peter J. Grahn	Allston	S. S. W. D. Noyes	Mystic Line
Edward H. Hall	Arlington	S. S. Edward Luckenbach	
Joseph D. Healy	Dorchester	S. S. Jacob Ruppert	Byrd Expedition
William D. Hemeon	Salem		
Harold D. Howes	Hyannis	S. S. Oregonian	American Hawaiian Line
William C. Jakeman	Watertown	S. S. Texan	American Hawaiian Line
Arthur J. Joyce	Watertown	S. S. President Polk	Dollar Line
Martin D. Keefe, Jr.	Roslindale	S. S. Pomona	Weyerhauser Line
Morton J. Kelly	Woburn	At sea	
Kenneth J. Knox	W. Medford	S. S. Maravi	United Fruit Line
William H. Lamb	Rockland	S. S. American Cardinal	American Cardinal
Arthur W. Lapine	Lynn	At sea	Standard Shipping Co.
Frederick A. Macher	Springfield		
Victor B. Magnuson	Medford	S. S. Exhibitor	American Export Line
Philip W. Mallard	Salem	S. S. Black Hawk	Black Diamond Line
John D. McGilvray	Lawrence		
Christopher J. McGrath, Jr.	Newtonville	S. S. City of Joaville	American Pioneer Line
Alfred C. Mehegan	Dorchester	S. S. Pennsylvanian	American Hawaiian Line
Carl M. Molitor	Danvers	S. S. Panaman	American Hawaiian Line
John A. Nichols	Malden	At sea	American Export Line
Samuel Orenstein	Springfield	At sea	Standard Oil Co.
John F. Pike	West Roxbury	S. S. Satartia	American Republics Line
Reginald F. Pinto	Vineyard Haven	At sea	
Donald L. Quick	W. Springfield		
C. Marsh Rice	Lynn	S. S. Pennsylvanian	American Hawaiian Line
Allan S. Rodgers	Chicopee Falls	S. S. Tuscaloosa	Isthmian Line
Phillip A. Rollings	Boston	S. S. Windrush	Shepard Line
Joseph E. Rush	Jamaica Plain	S. S. San Benito	United Fruit Company
Aurelio A. C. F. daSilva	Worcester	S. S. Ponce	Porto Rico Line
Gordon W. Small	Everett	S. S. Hydrographer	United States Geodetic Survey
George D. Smith	E. Walpole	S. S. Excalibur	American Export Line
Douglas B. Stott	Andover	S. S. Examelia	American Export Line
Joseph F. Sullivan	Fall River	S. S. Halsey	Mallory Line
Francis H. Sylvester	Somerville	S. S. Santa Isabel	Grace Line
Reynold A. Taylor	Norfolk Downs	S. S. President Hayes	Dollar Line
William B. Vautrinot	Hull	S. S. Franklin K. Lane	Standard Shipping Co.
Paul D. Wade	Somerville	S. S. Santa Maria	Grace Line
Leonard S. Waite	Wakefield	S. S. W. H. Libby	Beacon Oil Co.
Arthur J. Wallace, Jr.	Newtonville	At sea	Luckenbach Line
Sargent L. Walton	Salem	S. S. Juniata	Merchants and Miners Line
Paul F. Weissbrod	Holyoke		
William W. Wood	Shrewsbury	S. S. Ala	Black Diamond Line
Clifford W. Woodward	Plainville	S. S. Hydrographer	United States Geodetic Survey
Frank A. Young	Quincy	S. S. President Polk	Dollar Line

The School Record

During the year there have been 184 students on the rolls of the school. They came from 83 cities and towns of the Commonwealth as follows:

Abington	1	Milton	1
Andover	1	Montello	1
Arlington	2	Monument Beach	1
Athol	1	Nantasket	1
Bellingham	1	Needham	2
Beverly	4	New Bedford	2
Boston	16	Newbury	1
Braintree	2	Newton	7
Bridgewater	1	Norfolk Downs	1
Brockton	5	Norwood	2
Brookline	2	Pepperell	1
Cambridge	3	Plainville	2
Chicopee	1	Quincy	3
Concord	1	Revere	1
Danvers	1	Rockland	1
Eastham	1	Salem	5
Everett	2	Salisbury	1
Fairhaven	2	Saugus	1
Fall River	2	Sharon	2
Falmouth	1	Shirley	1
Fitchburg	2	Shrewsbury	3
Framingham	1	Somerville	3
Gardner	2	Southwick	1
Gloucester	3	Springfield	5
Haverhill	4	Stoneham	1
Holyoke	3	Taunton	2
Housatonic	1	Three Rivers	1
Hudson	1	Vineyard Haven	1
Hull	1	Wakefield	2
Hyannis	1	Walpole	1
Lawrence	2	Waltham	3
Leicester	1	Ware	1
Lowell	2	Watertown	3
Lynn	8	Westfield	1
Malden	4	West Springfield	4
Manchester	2	Whitinsville	1
Mansfield	1	Winthrop	3
Marshfield	1	Woburn	1
Medford	5	Wollaston	3
Melrose	1	Worcester	8
Middleboro	1	Yarmouth	1
Millville	1		
		Total	184

The previous education of these students was as follows:—High schools, 149; colleges, 12; technical schools, 11; academies, 5; vocational schools, 4; preparatory schools, 3. The average age of the cadets at entrance was 18 years, 9 months. The number of cadets enrolled in the school at present is 108.

Cadet Officers of the Massachusetts Nautical School

Summer Term

Navigation

Victor B. Magnuson ..... *Senior Cadet Officer*
Phillip A. Rollings ..... *Junior Cadet Officer*

Engineering

Frank A. Young ..... *Junior Cadet Engineer Officer*

Winter Term, 1933-34

Navigation

Thomas D. Donovan ..... *Senior Cadet Officer*
Marvin O. Rice ..... *Junior Cadet Officer*

Engineering

Walter J. Sztucinski ..... *Senior Cadet Engineer Officer*

Cadets Admitted, Graduated, and Honorably Discharged, from 1893 to 1933, Inclusive

	Admitted	GRADUATED			Honorably discharged	Withdrawn, dismissed, dropped	Number connected with the school
		Seamanship Class	Engineer Class	Totals			
1893	141	—	—	—	29	24	138
1894	63	—	—	—	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	138
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
1929	71	23	29	52	12	7	189
1930	62	33	19	52	8	3	180
1931	74	38	19	57	6	9	191
1932	50	23	22	45	2	3	169
1933	65	40	30	70	5	1	184
Total	2931	849	749	1598	733	493	

Membership of the School

Graduating Class, April, 1933

Seamanship Division

Lapine, Arthur W.	Lynn
Mehegan, Alfred C.	Dorchester
Gertsen, J. Douglas	Mattapan
Healy, Joseph D.	Dorchester
Farrell, Thomas P.	Bridgewater
Rice, C. Marsh	Lynn
Jakeman, William C.	Watertown
Howes, Harold D.	Hyannis
Brown, Frederick S.	West Newbury
Lamb, William H.	Rockland
Woodward, Clifford W.	Plainville
Hall, Edward H.	Arlington
Pike, John F.	West Roxbury
Anderson, Arthur L., Jr.	Hyde Park
Mallard, Philip W.	Salem
Pinto, Reginald F.	Vineyard Haven
Gafney, James F.	Ware
Taylor, Reynold A.	Norfolk Downs
Wallace, Arthur J., Jr.	Newtonville
Joyce, Arthur J.	Watertown
McGrath, Christopher J., Jr.	Newtonville
Hemeon, William D.	Salem
Beal, Gordon F.	Nantasket Beach
Keefe, Martin D., Jr.	Roslindale
Gately, John P.	Watertown

Engineering Division

McGilvray, John D.	Lawrence
Evans, Richard D., Jr.	Fall River
Sullivan, Joseph F.	Fall River
Davis, Richard R.	East Pepperell
Clark, William T.	Malden
Rush, Joseph E.	Jamaica Plain
Grahn, Peter J.	Allston
Smith, George D.	East Walpole
Berry, Horace A.	Malden
Knox, Kenneth G.	West Medford
Gilman, Newell J.	West Springfield
Arold, Frederick P.	Lawrence
Small, Gordon W.	Everett

Graduating Class, September, 1933

Seamanship Division

Nichols, John A.	Malden
Berg, Martin D.	Medford
Magnuson, Victor B.	Medford
Waite, Leonard S.	Wakefield
Walton, Sargent L.	Salem
Molitor, Carl M.	Danvers
Vautrinot, William B.	Hull
Costello, Martin J.	South Boston
Dougherty, Vincent E.	Stoneham
Wood, William W.	Shrewsbury
Sylvester, Francis H.	Somerville
Kelly, Morton J.	Woburn
Wade, Paul D.	Somerville
Rollings, Phillip A.	Boston

Engineering Division

Rodgers, Allen S.	Chicopee Falls
daSilva, Aurelio A. C. F.	Worcester
Gervais, Ralph E.	Wollaston
Creed, Donald L.	Marshfield
Glinski, James, Jr.	E. Saugus
Anderson, Russell W.	Worcester
Adler, Harold	Springfield
Young, Frank A.	Quincy
Macher, Frederick A.	Springfield
Orenstein, Samuel	Springfield
Stott, Douglas B.	Andover
Currier, Arthur R.	Shirley
Quick, Donald L.	West Springfield
Fogg, Kermit W. J.	Boston
Weissbrod, Paul E.	Holyoke
Elms, W. Roland	Arlington
Bellucci, Vittorio P.	Mansfield
Gold, Isador	Westfield

Class to Graduate, April, 1934

Seamanship Division

*Donovan, Thomas D.	Dorchester
deMille, Eric B.	Winthrop
Rice, Marvin O.	Gloucester
Tennett, Gordon W.	Winthrop
Harrington, George H.	Somerville
Gay, Howard E.	Plainville
Foley, John M.	Worcester
Arnold, Norman W.	Cambridge

Engineering Division

Sztucinski, Walter J.	Haverhill
Hickey, John R.	Newton Centre
Hillner, Arthur C.	Cambridge
Dranka, Stephen J.	Three Rivers
Andrews, Edward G.	E. Braintree
Johnston, James M.	Brookline
Waihela, Paul	Norwood

Class to Graduate, September, 1934

Seamanship Division

*Nickerson, Douglas E.	Waltham
Hyllestad, Bernard H.	Monument Beach
McCray, Charles E., Jr.	Shrewsbury
Herbert, Harlan P.	Shrewsbury
Peirce, George H.	Leicester
Hodgson, James T., Jr.	Taunton
Colligen, William H.	Newtonville
Berger, Richard E.	Winthrop
Packlick, Stanley T.	Housatonic
Howell, Charles R.	Worcester
Brodbine, Francis R., Jr.	Revere
Talbot, George E., Jr.	Whitinsville

Engineering Division

Anderson, Lars N.	E. Braintree
*Warren, Augustus W., Jr.	Middleboro
*Pond, Henry G.	Worcester
Cutter, Howell G.	Wakefield
Helin, Olavi	Gardner
Jagling, Thomas A.	Hudson
Champeau, Arthur E.	Wollaston
Cutler, Charles F., Jr.	Lynn
Lawrence, Beardsley, Jr.	Sharon
Tawse, George D.	Beverly
Hammond, Edward G.	Quincy
Holden, John H.	Cambridge
Swiniarski, John A.	Salem
Dzingelevich, Victor S.	Haverhill

(*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.)

Class to Graduate, April, 1935

Kastberg, Herman	Worcester
Brooks, Harold E.	Taunton
Kurgan, Anzelm	New Bedford
O'Brien, Matthew J.	Mattapan
Canfield, Robert B.	Pittsfield
Bromberg, Carl H., Jr.	Somerville
Jacinto, Francis M.	Taunton
Spear, Richard T.	Sharon
Johnson, Lawrence S.	Lynn
Mascarenhas, Anthony	Gloucester
Olsen, John E.	Quincy
Thomas, Walter, Jr.	Fairhaven
Mifflin, Chester L.	Medford
Evans, Robley J.	Everett
Gawlocki, Lester R.	Lynn
White, Richard J., Jr.	Wollaston
Griffin, Gerald J.	New Bedford
Swain, Kenneth W.	Melrose Highlands
Lister, John K.	Beverly
Currie, Allan B.	Medford
Mills, William H. A., Jr.	Framingham
Theriault, Harold J.	Gloucester
David, Raymond C., Jr.	Fitchburg
Edwards, John H.	Haverhill
Hughes, Francis J.	Roslindale
Iacoboni, Mario J.	Fitchburg
Gifford, A. Russell	New Bedford
Abrams, Sumner J.	Brookline
Hosmer, Herbert B., Jr.	Concord
Currier, Malcolm S.	Newtonville
Martel, William E	Montello
Hoyt, Willard D.	Athol
Elmer, Ralph W.	Lynn
Moran, Edmund F., Jr.	East Boston
Winslow, E. Freeman, Jr.	Norwood
Sciarappa, Christopher A.	Brockton
Tonis, Richard	Brockton

Class to Graduate, September, 1935

(Alphabetically Arranged)

Boyle, Donald E.	Roxbury
Campbell, Cyrus H.	N. Eastham
Collis, Albert E.	Salisbury
Curtis, Samuel DeV.	Bellingham
Fick, William F.	Roslindale
Fisher, Conrad W.	Needham
Fisher, Francis S.	Needham
Gesmundo, Jack	Haverhill
Hurder, William R.	Beverly
Johnston, George C., Jr.	Lynn
Kelley, Robert M., Jr.	S. Yarmouth
Kuralt, Richard M.	Springfield
Lahti, Veikko S.	Gardner
Lewis, Charles E.	Lynn
Lucek, Francis J.	Millville
Ludden, Richard F.	Abington
MacNeill, Charles A., Jr.	Waltham
Madden, John R.	Malden
Marsh, Donald W.	Waltham
Martin, Donald B	Springfield
Morgan, Donald C.	Brockton
Murphy, Joseph C.	Dorchester
Murray, James	Milton
Odell, Albert H.	Salem
Rioux, Raymond H.	Fairhaven
Robbins, Allan F.	Brockton
Simmons, Morton A.	Falmouth
Terry, Russell H.	Beverly
Thomas, Myron C.	Brockton
Tuttle, Charles V., Jr.	Southwick

Appropriations

The appropriations for the school for the fiscal year 1933, from December 1, 1932, to November 30, 1933, are accounted for as follows:

Expenses of Schoolship	Appropriation	Expenditures
Personal Services	$42,620.00	$41,514.87
Travel, transportation and office expenses	950.00	1,019.31
Food	18,000.00	18,683.42
Furnishings and household supplies	1,075.00	1,004.71
Medical and general care	1,000.00	1,452.36
Heat, light, power, etc.	7,900.00	7,032.47
Repairs	2,100.00	2,663.10
Miscellaneous	3,200.00	3,375.52
Brought forward from 1932 appropriation	.60	
Appropriation by the Commonwealth*	$76,845.60	$76,745.76
Unexpended balance		99.84
	$76,845.60	$76,845.60
Expenses of Commission		
Personal services	$4,460.00	$4,460 00
Office supplies and equipment	275.00	314.18
Traveling and other services and expenses	2,000.00	1,960.42
Appropriation by the Commonwealth*	$6,735.00	$6,734.60
Unexpended balance		.40
	$6,735.00	$6,735.00

"The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

The Commonwealth has also been reimbursed during the year to the amount of $10,917.48 received from tuition and other fees.

The estimates for the year 1934 are as follows:

Expenses of Schoolship	$86,994.
Expenses of Commission	2,417.
Personal Services	4,385.

Respectfully submitted,

WILLIAM E. McKAY, *Chairman.*
CLARENCE E. PERKINS,
THEODORE L. STORER,

Commissioners.

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THE COMMONWEALTH OF MASSACHUSETTS

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ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1934

MASSACHUSETTS NAUTICAL SCHOOL
DEPARTMENT OF EDUCATION

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE

800. 2-'35. Order 3602.

THE COMMONWEALTH OF MASSACHUSETTS

DEPARTMENT OF EDUCATION

PAYSON SMITH, *Commissioner of Education*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL

100 NASHUA STREET, BOSTON

WILLIAM E. MCKAY, *Chairman*
CLARENCE E. PERKINS
THEODORE L. STORER

WILLIAM H. DIMICK, *Secretary*

REPORT OF THE COMMISSIONERS

To the Commissioner of Education:

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1934, the forty-third annual report.

SCHOOL CALENDAR, 1934

Spring entrance examinations	March 29, 30 and 31
Winter term ended	April 3
Spring graduation	April 3
New class reported	April 16
Summer term commenced	May 1
"Nantucket" sailed from Boston	May 14
"Nantucket" arrived at Boston	September 17
Autumn entrance examinations	September 20, 21 and 22
Summer term ended	September 25
Autumn graduation	September 25
New class reported	October 15
Winter term commenced	October 29

GENERAL INFORMATION

What is the purpose of the Massachusetts Nautical School?

The school prepares young men for service as deck and engineer officers in the American merchant marine. A register of the work of the graduates is printed in the school catalogue.

Where is the school located?

The school is maintained on board the Schoolship *Nantucket*, a bark rigged sailing vessel with steam power, of about 1300 tons, berthed during the winter term at the Navy Yard, Charlestown. During the summer term the ship is on a practice cruise in European waters.

How long is the course?

The course of study and practical work occupies two years.

What is the age limit for applicants?

Applicants must be between seventeen years and their twentieth birthday.

What is the entire cost?

A clothing deposit of $150, a tuition fee of $100, and a graduation deposit of $50, is paid on entering the school; a clothing deposit of $50, and a tuition fee of $100 is paid at the beginning of the second year.

How are applicants admitted?

Qualified candidates, citizens of the United States, who are residents of Massachusetts, are admitted by competitive examinations held twice a year in March and September.

What are the physical requirements?

Applicants must be of normal size, and free from any physical defects, especially those of sight, speech and hearing; and pass the examination made by the school's medical officer.

Where are the examinations held?

The physical examination is held on board the Schoolship.
The mental examination is held in the Federal Building, or in a high school in Boston, and in the High School of Commerce, Springfield.

What studies are included in the entrance examination?

Spelling, geography, history, English, mental and written arithmetic, algebra and geometry.

What studies are included in the course of instruction?

Seamanship, navigation, marine engineering, electricity, ship construction, marine law, mechanical drawing, mathematics, and physics.

The Work of the Year

There have been no major changes in the equipment or the work during the past year. During the winter term the *Nantucket* was berthed as usual at the Navy Yard, Charlestown, Mass. The berth is a superior one as there is adequate space for drills, classrooms, and storage, and privacy is assured in the Navy Yard.

The mileage on the practice cruise was 9,740; about one third of this mileage was made under sail alone. Good weather was for the most part experienced, making ideal conditions for practical work.

Mr. Nicolai S. Sivertsen, Senior Watch Officer, resigned on May 4, anticipating reaching the retiring age of seventy in July. Mr. Sivertsen had fifty-six years of sea service, twenty-six years having been spent in the service of the school. He served on sailing vessels of the last century, and on the modern steamers of the present century. His work as an officer and instructor was highly satisfactory, and his resignation was accepted with regret.

At the spring graduation exercises, a prize was awarded for the first time by the Society of the War of 1812 to an engineer graduate. This prize is to be awarded at each graduation, and we heartily appreciate this interest of the Society in the work of the Nautical School.

The economic depression has not to any serious extent affected the work of the graduates. The graduates of the past year have been placed practically one hundred percent on board American ships, as will be seen by the tabulation on the following page.

Very recently, wide-spread attention has been called to the good work of one of the graduates, Ivan Freeman, of East Orleans, who graduated in 1917. He was Acting First Officer on board the *Morro Castle* when that ship caught fire off the New Jersey coast, on September 8, resulting in the loss of many lives. The Board of Inquiry exonerated Mr. Freeman from any blame in connection with the tragedy. His work throughout was creditable and elicited commendation. He was among the last to leave the burning ship.

Commissioner Clarence E. Perkins was re-appointed a Commissioner of the school for three years from July 1, 1934.

Removal of Office

On February 24 the office of the Commissioners was moved from 14 Beacon Street to the State Office Building, known as the Department of Public Works Building, 100 Nashua Street, Boston.

Graduates of the School in 1934

The following is a list of the forty graduates of 1934, the names of their home towns, and their first employment:

Name	Residence	Vessel	Service
Lars N. Anderson	E. Braintree	S. S. Exhame	American Export Line
Edward G. Andrews	E. Braintree	S. S. Geo. H. Jones	Standard Oil Company
Norman W. Arnold	Cambridge	S. S. Ohioan	American Hawaiian Line
Richard E. Berger	Winthrop	S. S. Iowan	American Hawaiian Line
Francis R. Brodbine, Jr.	Revere	S. S. Arizonan	American Hawaiian Line
Arthur E. Champeau	Wollaston	S. S. Santa Lucia	Grace Line
William H. Colligen	Newtonville	S. S. Marore	Ore Steamship Company
Howell G. Cutter	Wakefield	S. S. Marore	Ore Steamship Company
Eric B. DeMille	Winthrop	S. S. Washington	United States Lines
Thomas D. Donovan	Dorchester	S. S. Kansan	American Hawaiian Line
Stephen J. Dranka	Three Rivers		
Victor S. Dzingelevich	Haverhill	S. S. F. J. Luckenbach	Luckenbach Line
John M. Foley	Worcester	S. S. West Arrow	Black Diamond Line
Howard E. Gay	Plainville	S. S. Kentuckian	American Hawaiian Line
Edward G. Hammond	Quincy	S. S. Kansan	American Hawaiian Line
George H. Harrington	Somerville	S. S. Kentuckian	American Hawaiian Line
Olavi Helin	Gardner	Engineer	On shore
Harlan P. Herbert	Worcester	At sea	
John R. Hickey	Newton Centre	S. S. Veragua	United Fruit Company
Arthur C. Hillner	Cambridge	At sea	United Fruit Company
James T. Hodgson	Taunton	S. S. Exhame	American Export Line
John H. Holden	Cambridge	S. S. Julia Luckenbach	Luckenbach Line
Charles R. Howell	Worcester	S. S. Santa Eliza	Grace Line
Bernard H. Hyllestad	Monument Beach	S. S. Santa Rosa	Grace Line
Thomas A. Jagling	Hudson	S. S. Julia Luckenbach	Luckenbach Line
James M. Johnston	Brookline	S. S. St. John	Eastern Steamship Company
Beardsley Lawrence, Jr.	Sharon	S. S. Marore	Ore Steamship Company
Charles E. McCray, Jr.	Shrewsbury	S. S. Esparta	United Fruit Company
Douglas E. Nickerson	Waltham	S. S. Santa Eliza	Grace Line
Stanley T. Packlick	Housatonic	S. S. Black Heron	Black Diamond Line
George H. Peirce	Leicester	S. S. Julia Luckenbach	Luckenbach Line
Henry G. Pond	Worcester	S. S. Sarcoxie	American-France Line
Marvin O. Rice	Gloucester	At sea	Dollar Line
John A. Swiniarski	Salem	At sea	United Fruit Company
Walter J. Sztucinski	Haverhill	At sea	Mystic Steamship Company
George E. Talbot, Jr.	Whitinsville	S. S. F. J. Luckenbach	Luckenbach Line
George D. Tawse	Beverly	S. S. Satartia	C. H. Sprague Company
Gordon W. Tennett	Winthrop	S. S. Astral	Standard Shipping Line
Paul Waihela	Norwood		
Augustus W. Warren, Jr.	Middleboro	S. S. Santa Lucia	Grace Line

Detailed Report on the Practice Cruise

U. S. S. Nantucket—Itinerary 1934

LEFT—	ARRIVED AT—
Boston, May 14	Provincetown, May 14
Provincetown, May 18	Horta, Azores, June 1
Horta, June 5	Dublin, Ireland, June 14
Dublin, June 21	Liverpool, England, June 22
Liverpool, July 10	Antwerp, Belgium, July 13
Antwerp, July 18	Oporto, Portugal, July 24
Oporto, July 27	Gibraltar, July 30
Gibraltar, August 4	Madeira, August 8
Madeira, August 13	Fall River, September 6
Fall River, September 10	Cataumet, September 10
Cataumet, September 17	Boston, September 17

The *Nantucket* left Boston on May 14. After passing Boston Lightship, the *Nantucket* was swung for calibration of the direction finder, after which man-overboard drill was held. The time required for the drill was as follows: boat in water one and a half minutes, buoy picked up four minutes, boat hoisted eight and a half minutes.

The stay at Provincetown was advantageously utilized in sail and general drills. Upon departure from Provincetown, the ship was swung for compass deviation. Anti-typhoid inoculations were made. Weather charts were made daily by the cadets with good results. On Maritime Day, May 22, the radio greeting of the Navy Department to the American Merchant Marine was published to the ship's company. Life boat drills were continued.

Much fog was encountered in the approach to Ireland, at which time the radio direction finder proved most useful. Dublin was the port of call.

While in Liverpool, the cadets were taken on a visit to the new Gladstone Dock (White Star ships' berth), as guests of the Dock and Harbor Board. On July 4, the American residents, through the Consul General, were invited on board the ship; fifteen attended; the ship was full dressed for the day and holiday routine was observed.

During the stay in Liverpool, the ship's personnel was called upon for aid in the work of rescuing four men from asphyxiation. The men were working on a light buoy,—a sea buoy in the form of a boat about twenty feet long by eight feet beam, with a light structure about thirty feet high,—and were overcome by gas, probably acetylene. The boat was moored close astern of the *Nantucket*. When help was called for, the Officer of the Deck immediately sent help including the Pharmacist, who directed the resuscitation work and personally worked on a man who was most seriously affected, and it was only through prompt and efficient work that his life was saved. An oxygen tank was rushed to the spot, and the Stokes Stretcher was sent over and used to hoist the man to the dock. Later in the day a delegation of workmen came on board to express their thanks for the service rendered. The Mersey Dock and Harbor Board presented the Pharmacist with a handsome leather case, suitably inscribed.

Mr. Norman E. Merrill, the Executive Officer, found it necessary to go to the Northern Hospital, Liverpool, for treatment and an intestinal operation, necessitating a leave of absence during the remainder of the cruise.

At Antwerp, the museums, zoölogical gardens, and other points of interest were open free to the cadets, and the British Mission to Seamen held a reception for the cadets on the evening of arrival.

A most interesting Colonial Exposition was being held in Oporto to which admission was nominal. Villages of the peoples of the Portuguese colonies were to be seen as well as products and models of engineering and harbor works.

At Gibraltar visits to the Water Works were arranged for each watch by the Chaplain of the British Mission to Seamen. The Vice-Consul arranged for visits of each watch to the Galleries of the Rock.

Many courtesies were extended to the cadets by the British Mission to Seamen in Funchal. Swimming was held from the ship twice daily; and there was some sailing. Pulling boats were used entirely for working purposes.

On the morning after leaving Madeira, the ship was put under sail, but after two and a half days, the wind fell light, and the engine was coupled up. The ship was put under sail two days later, the morning of the eighteenth of August, and so continued until the evening of the twenty-seventh when the ship ran out of the trades. Sailing was had again on the thirtieth and the thirty-first. The weather then was squally and there was much handling of sail. The best day's run under sail was 159 miles.

During the cruise routine drills and studies were continued except when occasionally prevented by inclement weather. Divine services were conducted on Sunday.

The voyage was made as follows:

	Miles
Under steam	3,279
Under sail and steam	3,601
Under sail	2,860
Total	9,740

The following is a report on the coal consumption:

	Tons
On hand and received	682
Expended	636
Remaining arrival Boston	46

Items

	Tons
Moving ship	388
Dynamos and Auxiliaries	197
Distilling	44
Galleys	7
Total	636

Graduation Exercises

The seventy-ninth graduation exercises were held on board the *Nantucket* at the Navy Yard, Charlestown, on Tuesday, April 3, 1934, at 11 A. M. The program was as follows:

Invocation: Chaplain Evan W. Scott, U. S. N.
Presiding Officer: Captain William E. McKay, Chairman of the Board.
Address: Mr. Clarence E. Perkins, Commissioner, Massachusetts Nautical School.
Address: Hon. Charles Francis Adams, former Secretary of the Navy.
Address: Captain Harold E. Cook, U. S. N., Captain of the Yard.
Presentation of Boston Marine Society Prize by Captain Herman T. Parker, Port Captain, Eastern Steamship Lines:
To the graduate possessing the most qualities making the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership: Thomas D. Donovan of Dorchester.
Presentation of The Society of the War of 1812 Prize by Col. Frederic Gilbert Bauer, President of the Society:
To the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States: John R. Hickey of Newton Centre.
Presentation of Prizes awarded and presented by Mr. Arthur M. Wiggin of Brookline:
To the graduate in the Seamanship Class making the greatest improvement in all around work during the past year: Marvin O. Rice of Gloucester.
To the graduate in the Engineer Class making the greatest improvement in all around work during the past year: Stephen J. Dranka of Three Rivers.
Presentation of Bibles: Chaplain Scott. (The Bibles are the gift of the Massachusetts Bible Society.)
Presentation of Diplomas: Mr. Jerome Burtt, Supervisor of Secondary Education, Massachusetts Department of Education.

The eightieth graduation exercises were held on board the *Nantucket* at the Navy Yard, Charlestown, on Tuesday, September 25, 1934, at 11 A. M.

Invocation: Rev. Merritt A. Farren, Secretary, Boston Seamen's Friend Society.
Presiding Officer: Captain William E. McKay, Chairman of the Board.
Address: Hon. John F. Fitzgerald, Boston Port Authority.
Address: Captain Harold L. Colbeth, Treasurer, Boston Marine Society.
Address: Rear Admiral Henry H. Hough, U. S. N., Commandant, Boston Navy Yard.
Address: Mr. William H. Dimick, Executive Secretary, Massachusetts Nautical School.
Presentation of Wood-Whitman Memorial Prize by Commissioner Clarence E. Perkins.
To the graduate having the highest marks in Seamanship and Navigation for the year: Thomas D. Donovan of Dorchester.

Presentation of Boston Marine Society Prize by Captain Charles H. Hurley, class of 1915:

To the graduate possessing the most qualities making the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, and ability to attain and maintain leadership: Bernard H. Hyllestad of Monument Beach.

Presentation of The Society of the War of 1812 Prize by Col. Frederic Gilbert Bauer, President of the Society:

To the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States: Augustus W. Warren, Jr., of Middleboro.

Presentation of Prizes awarded and presented by Mr. Arthur M. Wiggin of Brookline:

To the graduate in the Seamanship Class making the greatest improvement in all around work during the past year: James T. Hodgson of Taunton.

To the graduate in the Engineer Class making the greatest improvement in all around work during the past year: Victor S. Dzingelevich of Haverhill.

Presentation of Bibles: Rev. Merritt A. Farren.

Presentation of Diplomas: Dr. Payson Smith, Massachusetts Commissioner of Education.

Lectures: Winter Term, 1933–34

1933

Nov. 3. Hubert W. Perry: Musical Entertainment.

Nov. 17. George T. Plummer. Subject: "Old New England Whaling," illustrated with four reels of moving pictures and colored slides.

Nov. 24. Captain Herman T. Parker, Port Captain, Eastern Steamship Lines. Subject: "Rules of the Road."

Dec. 8. Lieut. Comdr. George C. Manning, U. S. N. Subject: "Ship Construction."

Dec. 15. Professor Eldon R. James. Subject: "Marine Law."

1934

Jan. 5. Plymouth Cordage Company. Talking picture. Subject: "Rope Making."

Jan. 12. William Renz, American Bureau of Shipping. Subject: "Ship Inspection for Insurance."

Jan. 19. Captain Charles M. Lyons, United States Steamboat Inspector. Subject: "United States Steamboat Regulations."

Jan. 26. Captain Byron McCandless, U. S. N., Chief of Hydrographic Office in Boston. Subject: "Dissemination of Maritime Intelligence."

Feb. 2. Captain Harold E. Cook, U. S. N., Captain of Yard, Charlestown. Subject: "Reminiscences of Naval Service."

Feb. 9. Captain Charles H. Hurley, class of 1915. Subject: "Stowage of Cargo from a Stevedore's Point of View."

Feb. 16. Norman E. Merrill. Subject: "Development of Ships." Illustrated.

Feb. 23. Lieut. Ervin L. Kelley. Subject: "Marine Tools." Illustrated.

March 2. John Stewart, United States Steamboat Inspector. Subject: "Some Breakdowns at Sea."

March 9. Captain Clarence A. Abele, U. S. N., Superintendent of the School. Subject: "Getting Along."

The School Record

During the year there have been 163 students on the rolls of the school. They came from 76 cities and towns of the Commonwealth as follows:

Abington	1	Medford	2
Andover	1	Melrose	2
Arlington	2	Middleboro	1
Athol	2	Millville	1
Attleboro	2	Milton	2
Auburndale	1	Montague	1
Avon	1	Monument Beach	1
Bellingham	1	Needham	2
Beverly	4	New Bedford	5
Boston	11	Newton	3
Braintree	3	North Wilbraham	1
Bridgewater	2	Norwood	3
Brockton	6	Pittsfield	2
Brookline	2	Plainville	1
Cambridge	4	Quincy	3
Cherry Valley	1	Reading	1
Concord	1	Revere	1
Dedham	1	Rochdale	1
Eastham	1	Rowley	1
Easthampton	2	Salem	3
Everett	2	Salisbury	1
Fairhaven	2	Sharon	2
Fall River	1	Shrewsbury	2
Falmouth	1	Somerville	3
Fitchburg	2	Southwick	1
Florence	1	Springfield	3
Framingham	1	Stoneham	1
Gardner	2	Taunton	3
Gloucester	3	Three Rivers	1
Haverhill	7	Wakefield	2
Housatonic	1	Waltham	3
Hudson	2	Wellesley	1
Lawrence	2	Whitinsville	1
Leicester	1	Winchester	1
Lowell	1	Winthrop	5
Lynn	6	Wollaston	2
Malden	1	Worcester	7
Manomet	1	Yarmouth	1
		Total	163

The previous education of these students was as follows:—High schools, 140; colleges, 11; technical schools, 9; academies, 2; trade school, 1. The average age of the cadets at entrance was 18 years, 5 months. The number of cadets enrolled in the school at present is 118.

Officers and Instructors

Clarence A. Abele, Captain, U.S.N. (retired), Superintendent.
Norman E. Merrill (graduate M.N.S.), Executive Officer.
Robert M. Gray, Lieutenant, U.S.N.R. (graduate M.N.S.), Navigator.
Richard T. Rounds (graduate M.N.S.), Watch Officer.
Louis A. Woodland (graduate M.N.S.), Watch Officer.
Ervin L. Kelley, Lieutenant, U.S.N.R. (graduate M.N.S.), Chief Marine Engineer.
Norman L. Queen (graduate M.N.S.), Assistant Marine Engineer.
John E. Wright, Instructor in Mathematics.
William F. Williamson, Instructor in Mechanical Drawing.
Richard L. Pearse, M.D., Surgeon, Summer Term.
Robert S. Palmer, M.D., Surgeon, Winter Term.
Charles Parker, Paymaster.

Cadet Officers of the Massachusetts Nautical School

Summer Term

Navigation

James T. Hodgson . . . . . *Senior Cadet Officer*
Bernard H. Hyllestad . . . . . *Junior Cadet Officer*

Engineering

Augustus W. Warren, Jr. . . . . *Senior Cadet Engineer Officer*
Victor S. Dzingelevich . . . . . *Junior Cadet Engineer Officer*

Winter Term, 1934–35

Navigation

Herman Kastberg . . . . . *Senior Cadet Officer*
Carl H. Bromberg, Jr. . . . . *Junior Cadet Officer*

Engineering

Anzelm Kurgan . . . . . *Senior Cadet Engineer Officer*
Matthew J. O'Brien . . . . . *Junior Cadet Engineer Officer*

Cadets Admitted, Graduated, and Honorably Discharged, from 1893 to 1934, Inclusive

	Admitted	Graduated			Honorably discharged	Withdrawn, dismissed, dropped	Number connected with the school
		Seamanship Class	Engineer Class	Totals			
1893	141	—	—	—	29	24	138
1894	63	—	—	—	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	138
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
1929	71	23	29	52	12	7	189
1930	62	33	19	52	8	3	180
1931	74	38	19	57	6	9	191
1932	50	23	22	45	2	3	169
1933	65	40	30	70	5	1	184
1934	55	20	20	40	4	1	163
Total	2,986	869	769	1,638	737	494	

Membership of the School

Graduating Class, April, 1934

Seamanship Division

*Donovan, Thomas D.	Dorchester
deMille, Eric B.	Winthrop
Gay, Howard E.	Plainville
Rice, Marvin O.	Gloucester
Harrington, George H.	Somerville
Arnold, Norman W.	Cambridge
Tennett, Gordon W.	Winthrop
Foley, John M.	Worcester

Engineering Division

Hickey, John R.	Newton Centre
Sztucinski, Walter J.	Haverhill
Hillner, Arthur C.	Cambridge
Dranka, Stephen J.	Three Rivers
Waihela, Paul	Norwood
Andrews, Edward G.	East Braintree
Johnston, James M.	Brookline

Graduating Class, September, 1934

Seamanship Division

Hyllestad, Bernard H.	Monument Beach
*Nickerson, Douglas E.	Waltham
Hodgson, James T., Jr.	Taunton
Herbert, Harlan P.	Worcester
McCray, Charles E., Jr.	Shrewsbury
Peirce, George H.	Leicester
Howell, Charles R.	Worcester
Berger, Richard E.	Winthrop
Packlick, Stanley T.	Housatonic
Colligen, William H.	Newtonville
Talbot, George E., Jr.	Whitinsville
Brodbine, Francis R., Jr.	Revere

Engineering Division

*Warren, Augustus W., Jr.	Middleboro
*Pond, Henry G.	Worcester
Cutter, Howell G.	Wakefield
Anderson, Lars N.	East Braintree
Dzingelevich, Victor S.	Haverhill
Helin, Olavi	Gardner
Champeau, Arthur E.	Wollaston
Tawse, George D.	Beverly
Hammond, Edward G.	Quincy
Lawrence, Beardsley, Jr.	Sharon
Swiniarski, John A.	Salem
Holden, John H.	Cambridge
Jagling, Thomas A.	Hudson

Class to Graduate, April, 1935

Seamanship Division

*Kastberg, Herman	Worcester
*Bromberg, Carl H., Jr.	Somerville
*Spear, Richard T.	Sharon
*Johnson, Lawrence S.	Lynn
*Olsen, John E.	Quincy
*White, Richard J., Jr.	Wollaston
*Lister, John K.	Beverly
*Mills, William H. A., Jr.	Framingham
Griffin, Gerald J.	New Bedford
Gifford, A. Russell	New Bedford
Moran, Edmond F., Jr.	East Boston
*Canfield, Robert B.	Pittsfield
*Currier, Malcolm S.	Newtonville
Hughes, Francis J.	Roslindale
*Abrams, Sumner J.	Brookline
Swain, Kenneth W.	Melrose Highlands
*Hoyt, Willard D.	Athol
Evans, Robley J.	Everett
*Hosmer, Herbert B., Jr.	Concord
Theriault, Harold J.	Gloucester
Mifflin, Chester L.	Medford
Thomas, Walter, Jr.	Fairhaven
Currie, Allan B.	Medford
Mascarenhas, Anthony	Gloucester

Engineering Division

Kurgan, Anzelm	New Bedford
*O'Brien, Matthew J.	Mattapan
David, Raymond C., Jr.	Fitchburg
*Nichols, Ralph W.	Lynn
*Brooks, Harold E.	Taunton
Gawlocki, Lester R.	Lynn
Jacinto, Francis M.	Taunton
Martel, William E.	Montello
Sciarappa, Christopher A.	Brockton
Iacoboni, Mario J.	Fitchburg
Edwards, John H.	Haverhill
Winslow, E. Freeman, Jr.	Norwood

Class to Graduate, September, 1935

Seamanship Division

*Ludden, Richard F.	Abington
Terry, Russell H.	Beverly
*Marsh, Donald W.	Waltham
Campbell, Cyrus H.	N. Eastham
Fisher, Conrad W.	Needham
Robbins, Allan F.	Brockton
Simmons, Morton A.	Falmouth
Fick, William F.	Roslindale
Boyle, Donald E.	Roxbury
Hurder, William R.	Beverly
Lucek, Francis J.	Millville
Kuralt, Richard M.	Springfield
Murphy, Joseph C.	Dorchester
Martin, Donald B.	Springfield
Kelley, Robert M., Jr.	S. Yarmouth
Curtis, Samuel DeV.	Bellingham
Odell, Albert H.	Salem

Engineering Division

Murray, James	Milton
Fisher, Francis S.	Needham
Lahti, Veikko S.	Gardner
Morgan, Donald C.	Brockton
*Thomas, Myron C.	Brockton
Rioux, Raymond H.	Fairhaven
Collis, Albert E.	Salisbury
Johnston, George C., Jr.	Lynn
Lewis, Charles E.	Lynn
Gesmundo, Jack	Haverhill
Tuttle, Charles V., Jr.	Southwick
Madden, John R.	Malden

(*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.)

Class to Graduate, April, 1936

Nielsen, Andrew P. L.	Jamaica Plain
Staples, Stanley M.	Haverhill
Corriveau, Martial P.	Salem
Burgo, Daniel F.	New Bedford
Gallagher, J. Howard	Lawrence
Ramey, James L.	Hudson
Parkhurst, Roland E.	Everett
Jacobs, Robert H.	Worcester
Sholes, Harold L.	Rowley
Ludy, Ralph W.	East Braintree
Rico, Albert F., Jr.	Arlington
Gotovich, Edward G.	Norwood
Kudlay, Anthony	Easthampton
Doe, Wilbur S.	Somerville
Call, Edward F.	Lowell
Forsythe, Chester, Jr.	Quincy
Novak, Edward	Easthampton
Swimm, Charles H.	Winthrop
Clark, Edward A.	Reading
Richmond, Frank R.	Springfield
Douglas, James E.	Cambridge
Milner, Gordon B.	Rochdale
Donahue, Timothy E., Jr.	Haverhill
Bemis, Ernest W.	West Bridgewater
Brown, Richard C.	Attleboro
Agnew, Francis X.	Lawrence

Class to Graduate, September, 1936

(Alphabetically Arranged)

Allen, Thorwald C.	North Andover
Anderson, John W.	Wellesley Hills
Barlow, Robert S.	Cherry Valley
Brown, D. Webster, Jr.	New Bedford
Bryce, Forbes O.	Montague
Carter, Charles W.	Shrewsbury
Collins, Richard B.	Milton
Davies, W. Kenneth	Florence
Dawson, James J.	Pittsfield
Dayton, Charles J.	Wakefield
Dietrich, George S.	Dorchester
Ellis, Carl C.	Winchester
Greeley, Gerald G.	Dorchester

Hamilton, Edwin A.	East Dedham
Hemmerly, William H., Jr.	Manomet
Jackson, Howard B.	Melrose
Kelley, Arthur S.	Avon
Lennon, F. Garvin	Roxbury
Mushet, Robert A., Jr.	Arlington
Potter, Andrew B., Jr.	Auburndale
Rolfe, Thomas W.	Stoneham
Schmidt, Harold T.	Athol
Serafin, Edward F.	Worcester
Shockley, Wilson I.	Bridgewater
Sullivan, John L.	North Wilbraham
Thompson, Owen E.	Attleboro
Wickham, Joseph F.	Winthrop

Appropriations

The appropriations for the school for the fiscal year 1934, from December 1, 1933, to November 30, 1934, are accounted for as follows:

Expenses of Schoolship	Appropriation	Expenditures
Personal Services	$40,746.00	$40,596.15
Travel, transportation and office expenses	1,050.00	1,627.65
Food	20,500.00	21,167.11
Furnishings and household supplies	1,000.00	1,169.00
Medical and general care	1,380.00	1,496.43
Heat, Light, power, etc.	8,500.00	6,964.11
Repairs	6,800.00	4,781.14
Miscellaneous	3,700.00	3,278.52
Appropriation by the Commonwealth*	$83,676.00	$81,080.11
Unexpended balance		2,595.89
	$83,676.00	$83,676.00
Expenses of Commission		
Personal services	$4,430.00	$4,429.80
Office supplies and equipment	275.00	412.47
Traveling and other services and expenses	2,000.00	1,859.30
Appropriation by the Commonwealth*	$6,705.00	$6,701.57
Unexpended balance		3.43
	$6,705.00	$6,705.00

*The Treasurer of the Commonwealth receives annually $25,000 from the Navy Department toward the maintenance of the school, reducing the net cost to the State by that amount.

The Commonwealth has also been reimbursed during the year to the amount of $11,811.12 received from tuition and other fees.

The estimates for the year 1935 are as follows:

Expenses of Schoolship	$86,709
Expenses of Commission	2,206
Personal Services	4,764

Respectfully submitted,

WILLIAM E. McKAY, *Chairman*,
CLARENCE E. PERKINS,
THEODORE L. STORER,
Commissioners.

ASS.
OCS.
OLL.

Public Document No. 42

THE COMMONWEALTH OF MASSACHUSETTS

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1935

MASSACHUSETTS NAUTICAL SCHOOL
DEPARTMENT OF EDUCATION

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE.
800. 2-'36. Order 6967.

THE COMMONWEALTH OF MASSACHUSETTS

DEPARTMENT OF EDUCATION

PAYSON SMITH, *Commissioner of Education*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL

100 NASHUA STREET, BOSTON

CLARENCE E. PERKINS, *Chairman*
THEODORE L. STORER
WALTER K. QUEEN

WILLIAM H. DIMICK, *Secretary*

REPORT OF THE COMMISSIONERS

To the Commissioner of Education:

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1935, the forty-fourth annual report.

SCHOOL CALENDAR, 1935

Spring entrance examinations	March 28, 29 and 30
Winter term ended	April 2
Spring graduation	April 2
New class reported	April 15
Summer term commenced	May 1
"Nantucket" sailed from Boston	May 11
"Nantucket" arrived at Boston	September 17
Autumn entrance examinations	September 19, 20 and 21
Summer term ended	September 24
Autumn graduation	September 24
New class reported	October 14
Winter term commenced	October 28

STATE NAUTICAL SCHOOLS

On June 20, 1874, Congress passed an Act to encourage the establishment of public marine schools. The legislation authorized and empowered the Secretary of the Navy to loan a suitable vessel with her equipment to certain States desiring to establish a nautical school for the instruction of youths in seamanship, navigation and marine engineering.

The New York Nautical School was established in 1876 on board the U. S. S. "St. Mary's"; the Pennsylvania Nautical School was established in 1889 on board the U. S. S. "Saratoga"; the Massachusetts Nautical School commenced in 1891 when the U. S. S. "Enterprise" was loaned to the State by the Navy Department; and the California Nautical School had its inception in 1929 on board the "California State." Since 1876, the work of nautical education has been carried on in this country as a State activity. The graduates of these State nautical schools form a large part of the deck and engineer officers now serving on board American vessels. In one line, the American Hawaiian Line, graduates of the Massachusetts school are employed as follows: one marine superintendent, two assistant operating managers, five captains, eight first officers, ten second officers, nineteen third officers, one chief engineer, one first assistant engineer, four second assistant engineers, and five third assistant engineers.

The system of state nautical schools, in operation with good success during the past sixty years, is generally believed the most economical and efficient method of carrying on nautical education

The Maritime Traditions of Massachusetts

The citizens of Massachusetts from the earliest colonial days have been interested in all matters pertaining to the sea and ships. The "Blessing of the Bay," built by Governor Winthrop in Medford in 1631, was one of the first vessels to be built in this country, and for two hundred and fifty years, shipbuilding and sea going occupied in large measure the attention of the State. The first schooner was built in Gloucester in 1714. The ship "Dreadnaught", launched in Newburyport in 1853, was noted for her quick passages between New York and Liverpool, and was the most outstanding packet ship of her time. The fleet of clipper ships built in East Boston, seventy-five and one hundred years ago, for speed and beauty of design, were unequalled anywhere in the world. Many of the pioneers in establishing trade routes to distant parts of the world were from Salem and Boston. In 1788, Capt. Robert Gray, of Boston, in the "Lady Washington", and Capt. John Kendrick, of Wareham, in the "Columbia", were the first American captains to visit the northwest coast. Capt. Gray in the "Columbia" was the first American to sail around the world.

The Boston Marine Society, established in 1742, is the oldest marine society in the world.

The history of the American merchant marine is largely a history of Massachusetts shipping,—the hundreds of small craft built in the colonial period, in Salem, Medford, Marblehead and Boston, the incomparable clipper ships of the last century, the packet ships, the whaling vessels of Fairhaven, New Bedford and Nantucket, and the fishing vessels of Boston, Gloucester and Provincetown. Massachusetts has furnished a large percentage of the men who have manned the ships of our merchant marine and of our Navy in times of peace and in times of war, and has been aptly called the premier maritime State of the country.

The Massachusetts Nautical School during the past forty-two years has been doing its full share in maintaining the sea traditions of the State as will be seen by the register of graduates printed in the catalogue of the school.

The Massachusetts Nautical School was established by Act of the Legislature in 1891 for the purpose of preparing young men for service as officers in the American mercantile marine. The school offers theoretical and practical instruction in seamanship, navigation, marine engineering and electricity. The school is conducted on board the Schoolship "Nantucket", a vessel of 1261 tons, of iron construction, accommodating 118 cadets. The Commanding Officer of the "Nantucket" and the Superintendent of the school, is a retired officer of the United States Navy. The course of study and practical work occupies

two years. The year is divided into a winter and summer term. During the winter term, which includes practical and theoretical instruction, the ship is berthed at the Navy Yard, Charlestown. The summer term is occupied with the practise cruise, usually to European ports.

A deposit of $300 is required before an applicant enters the school, and another deposit of $150 at the beginning of the second year. The entrance examinations, which are strictly competitive, are held in Boston and Springfield in March and September. The age limit of candidates, who must be sons of residents and citizens of Massachusetts, is from seventeen years to the twentieth birthday. A graduate of the school is eligible for examination for a United States certificate as third officer or third assistant engineer.

The Work of the Year

The work of the school has continued along the usual lines. During the winter months the ship was berthed at the Navy Yard, and the customary practise cruise in the North-Atlantic was made during the summer months. About one-third of the total mileage of the cruise,—10,627—was made under sail alone.

During the spring overhaul substantial repairs were made by the Navy Department, and a Fathometer equipment of the Standard 480 type, the latest and most accurate method of deep sea sounding, was installed on board the "Nantucket" on a rental basis. Emergency repairs were necessary at Ponta Delgada and at Plymouth, England. The Commissioners greatly appreciate the courtesy extended by the British Admiralty in permitting repairs to the main engine to be made at the British Royal Naval Dockyard, Plymouth.

A new edition of the rules and regulations of the school was compiled by the Superintendent and printed, a copy being given to every cadet before reporting on board the "Nantucket."

The following prizes are awarded to graduates: The Boston Marine Society, to the graduate excelling in those qualities making for the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership; the Wood Whitman Memorial Prize, to the graduate having the highest mark in seamanship and navigation for the year; the Society of the War of 1812, to the engineer graduate having excellence in studies, good conduct, and the possession of those qualities of leadership, and willingness to assume responsibility which have ever characterized the Navy and merchant marine of the United States; the Arthur M. Wiggin Prizes, to the graduate in the seamanship class and to the graduate in the engineer class making the greatest improvement in all around work during the year; the Massachusetts Society of the United States Daughters of 1812, to the graduate standing highest in engineering and electricity. The latter prize was awarded for the first time on April 2, 1935. The Commissioners heartily appreciate this helpful and substantial cooperation in maintaining the high standard of the school.

Capt. William E. McKay, who had been a Commissioner of the school since July 22, 1908, and Chairman of the Board since 1927, passed away on March 2. Captain McKay rendered faithful and devoted service to the State. He brought to the work unusual qualifications,—education at the United States Naval Academy, graduating at the head of his class; executive work in connection with large corporations; and a judicial temperament.

Lieut. Comdr. Walter K. Queen, U. S. N. R., of Needham, an alumnus of the school, was appointed a Commissioner of the school on March 13, 1935. Comdr. Queen served many years as an engineer in the American merchant marine. He was chief engineer of the Byrd Antarctic Expedition II. He is a lieutenant-commander in the United States Naval Reserve force. For twenty years, he was engaged in engineering work for large corporations, and is now President of the Q P Signal Company, Needham.

On May 1, Mr. Norman E. Merrill, of the class of 1912, who had been an officer and instructor in the school for fifteen years, resigned as Executive Officer to accept a position in the United States Steamboat Inspection Service. Capt. Robert M. Gray of the class of 1912, Navigating Officer, was promoted to fill the vacancy. Mr. John W. Thompson, of the class of 1912, was appointed Navigator.

On August 10, the school suffered the loss of Mr. Edward F. Corcoran, the Schoolship Pharmacist and Nurse. Mr. Corcoran rendered valuable service in his division. He died in a hospital in Gibraltar from myocarditis and cerebral embolus, after an illness of about two weeks. His body was sent to his home in Boston.

Graduates of the School in 1935

The following is a list of the sixty-two graduates of 1935, the names of their home towns, and their first employment:

Name	Residence	Vessel	Service
Sumner J. Abrams	Brookline	S. S. Dean Emery	Standard Shipping Company
Donald E. Boyle	Roxbury		
Carl H. Bromberg, Jr.	Somerville	S. S. Dean Emery	Standard Shipping Company
Harold E. Brooks	Taunton	S. S. Platano	United Fruit Company
Cyrus H. Campbell	Boston	S. S. Lemuel Burrows	Mystic Steamship Company
Robert B. Canfield	Pittsfield	S. S. L. J. Drake	Beacon Oil Company
Albert E. Collis	Salisbury	S. S. Panaman	American Hawaiian Line
Allan B. Currie	Medford	At sea	Panama Railway Line
Malcolm S. Currier	Newtonville	S. S. Californian	American Hawaiian Line
Samuel D. Curtis	Bellingham		
Raymond C. David, Jr.	Fitchburg	At sea	United Fruit Company
John H. Edwards	Haverhill	At sea	Clyde & Mallory Company
Robley J. Evans	Everett	S. S. Columbia	Columbian Line
William F. Fick	Roslindale	S. S. Maravi	United Fruit Company
Conrad W. Fisher	Needham	S. S. Clinwood	American Scantic Line
Francis S. Fisher	Needham	S. S. Tanamo	United Fruit Company
Lester R. Gawlocki	Lynn	S. S. Algic	
Jack Gesmundo	Haverhill	S. S. Ulna	United Fruit Company
A. Russell Gifford	New Bedford		
Gerald J. Griffin	Fall River	S. S. Kansan	American Hawaiian Line
Herbert B. Hosmer, Jr.	Concord	S. S. Galveston	American Pioneer Company
Willard D. Hoyt	Athol	S. S. American Banker	American Merchant Line
Francis J. Hughes	Roslindale	S. S. Veragua	United Fruit Company
William R. Hurder	Beverly	S. S. Gulfbird	Gulf Oil Company
Mario J. Iacoboni	Fitchburg	S. S. Scanpenn	American Caribbean Line
Francis M. Jacinto	Taunton	S. S. San Gil	United Fruit Company
Lawrence S. Johnson	Lynn	At sea	Beacon Oil Company
Herman Kastberg	Worcester	S. S. Chester O. Swain	Standard Shipping Company
Robert M. Kelley	Yarmouth	S. S. Satartia	C. H. Sprague & Company
Richard M. Kuralt	Springfield	S. S. Santa Rita	Grace Line
Anzelm Kurgan	New Bedford	T. E. S. Platano	United Fruit Company
Veikko S. Lahti	Gardner	S. S. Ulna	United Fruit Company
Charles E. Lewis	Lynn		
John K. Lister	Beverly	S. S. El Dia	Morgan Line
Francis J. Lucek	Millville	S. S. R. G. Stewart	Pan American Line
Richard F. Ludden	Abington	S. S. I. C. White	Standard Shipping Company
John R. Madden	Malden	S. S. Patrick Henry	Lykes Bros. Steamship Co.
Donald B. Marsh	Waltham	S. S. Gulfgem	Gulf Oil Company
William E. Martel	Brockton	S. S. San Benito	United Fruit Company
Donald B. Martin	Springfield	S. S. Santa Rita	Grace Line
Anthony Mascarenhas	Gloucester	S. S. El Dia	Southern Pacific Company
Chester L. Mifflin	Medford	S. S. Santa Rita	Grace Line
William H. A. Mills, Jr.	Framingham	S. S. Liebre	Standard Shipping Company
Edmund C. Moran, Jr.	East Boston	S. S. George Jones	Standard Shipping Company
Donald C. Morgan	Brockton	S. S. Toloa	United Fruit Company
Joseph C. Murphy	Dorchester	M. S. J. A. Moffet, Jr.	Standard Oil Company
James Murray	Milton	S. S. Cities Service	Cities Service Line
Ralph W. Nichols	Lynn	S. S. San Benito	United Fruit Company
Matthew J. O'Brien	Mattapan	S. S. Toloa	United Fruit Company
John E. Olsen	Quincy	At sea	Mystic S. S. Company
Raymond H. Rioux	Fairhaven	S. S. Black Condor	Black Diamond Line
Allan F. Robbins	Brockton	S. S. Collingsworth	American Republic Line
Christopher A. Sciarappa	Brockton	S. S. Ancon	Panama Railroad Line
Morton A. Simmons	Falmouth	S. S. Mexican	American Hawaiian Line
Richard T. Spear	Sharon	S. S. Exchorda	American Export Line
Kenneth W. Swain	Melrose	S. S. Tivives	United Fruit Company
Russell H. Terry	Beverly	S. S. Gem	Gulf Refining Company
Harold J. Theriault	Gloucester	S. S. Katrina Luckenbach	Luckenbach Line
Myron C. Thomas	Brockton	S. S. San Bruno	United Fruit Company
Walter Thomas, Jr.	Fairhaven	S. S. Missouri	Cities Service Company
Richard J. White, Jr.	Wollaston	S. S. Lemuel Burrows	Mystic Steamship Company
E. Freeman Winslow, Jr.	Norwood	At sea	Cities Service Company

Detailed Report on the Practice Cruise

U. S. S. "Nantucket"—Itinerary 1935

Left—	Arrived at—
Boston, May 11	Gloucester, May 12
Gloucester, May 16	Washington, May 21
Washington, May 27	Norfolk, May 28
Norfolk, May 31	Newport, June 2
Newport, June 5	Ponta Delgada, Azores, June 17
Ponta Delgada, June 22	Plymouth, England, June 30
Plymouth, July 5	London, England, July 8
London, July 15	Cadiz, Spain, July 24
Cadiz, July 29	Gibraltar, July 29
Gibraltar, August 3	Casa Blanca, Morocco, August 5
Casa Blanca, August 9	Teneriffe, Canary Islands, August 12
Teneriffe, August 16	Bermuda, September 3
Bermuda, September 6	Mattapoisett, September 10
Mattapoisett, September 16	Boston, September 17

The "Nantucket" departed from the Navy Yard, Boston, at 2.30 P. M. on May 11. Many parents and friends of cadets came to see the ship sail. Off Boston Light Vessel, the "Nantucket" was swung for compass deviation, and for calibration of the radio direction finder. These operations took until sundown, after which the course was set for Cape Ann Whistling Buoy. The "Nantucket" anchored in Gloucester Harbor at 9.27 A. M. on May 12. All machinery functioned satisfactorily. Mr. Simon C. Swing of the Submarine Signal Company took passage to Gloucester to test out the newly installed Fathometer. The instrument functioned perfectly.

Gloucester

The stay of the "Nantucket" at Gloucester was utilized to good advantage in "shaking down." Sail drills and general drills were held, although as many sail drills as desired could not be held on account of strong wind from ahead making furling a difficult task. Pulling boats were used almost entirely as running boats, the motor launch being used for some special trips. Several boat drills under sail were held. Numerous visitors came on board during our stay in port, and in the afternoon of Sunday, many parents of cadets were in Gloucester. On Monday afternoon, the cadets' baseball team played a game of baseball with the team of the Gloucester High School, which game was won by Gloucester by the score of 14 to 0. The "Nantucket" departed from Gloucester at 11 A. M. on the 16th. When nearing Boston Light Vessel, a vessel on fire was observed to the southwestward. It was found to be the Steamship "Van" being intentionally burned.

En Route to Washington

On the 18th the wind came fair for sailing. The engine was uncoupled and the ship proceeded for six hours under sail, but the wind fell light and the engine was again coupled up. During the run to the Chesapeake, the cadets were exercised at general drills. Man overboard drills were held as follows: May 16, boat in water, 2 minutes; buoy picked up, 4 minutes; boat hoisted, 10 minutes. May 17, boat in water, 1 minute 20 seconds; buoy picked up, 4 minutes; boat hoisted, 13 minutes.

The ship anchored off Old Point Comfort at 4.45 P. M. On the morning of the 20th, the ship got underway, anchoring for the night off Windmill Point. On the morning of the 21st, the ship got underway and proceeded up the Potomac River, anchoring for the night off Mount Vernon. Off Indian Head, 28 miles below Washington, the Argentine Naval Training Ship, "President Sarmiento," was passed. Honors were rendered. The ship was berthed at the Mayflower Dock at the Washington Navy Yard.

Washington

The visit of the "Nantucket" to Washington was very beneficial from several points of view. The conduct of the cadets in Washington was excellent, and many complimentary things were said about them by guests and visitors to the ship, and the Naval officers who observed them. The ship left the Navy Yard at 8.30 A. M. Monday, May 27. The range finder was of the greatest value in operating in the Potomac. Lighthouse Bureau officials were greatly interested in our use of the range finder and made a second visit to the ship to try it and to discuss its possible use in their service in connection with locating aids to navigation. The "Nantucket" arrived at the Norfolk Naval Base at 12.45 P. M., May 28.

Norfolk

Memorial Day was observed as a holiday. Mr. Cox, Director of the Norfolk Port Authority, Mr. H. G. Barbee, Treasurer of the Norfolk Port Authority, and Mr. H. J. Wagner, of the Norfolk Port Traffic Commission, called on board the ship. They are all interested in the establishment of a Virginia nautical school.

En Route to Newport

The "Nantucket" left the dock under two boilers, assisted by the station tug, at 3 P. M. on the 31st, and proceeded to sea. The engineers did excellent steaming. For the boiler power in use a higher average of revolutions was maintained than customary. The rebuilding of the uptakes is largely responsible, but the cadets seemed to take hold of their jobs better than usual at this stage of the cruise. A surprise lifeboat drill was held on Saturday afternoon. Times were as follows: boat in water, 1 minute 30 seconds; box picked up, 5 minutes 30 seconds; boat hoisted, 13 minutes. The "Nantucket" arrived and moored to a buoy off the Training Station, Newport, at 6 P. M., June 2.

Newport

The usual watch liberty was granted the cadets while at Newport. Pulling boats were used entirely during the stay, the motor launch not being hoisted out. Some boat sailing was had.

En Route to Ponta Delgada

The "Nantucket" got underway from Newport at 10 A. M. on June 5 under two boilers. Routine drills and studies were at once started. When setting sail on the afternoon of June 8, the hook of the tye block on the foretopsail halliards carried away. The yard landed on the cap heavily, breaking in the starboard quarter. The yard was sent down on deck and stripped ready to be repaired upon arrival at Ponta Delgada. Square sail (less foretopsail) was carried throughout daylight hours on the 9th, but the wind falling light towards sundown, was taken in. With fore and aft sail good progress was made. It was deemed advisable to arrive at Ponta Delgada as early as possible to afford ample time for the repair to the topsail yard. Weather throughout the passage was good with the exception of fog at the outset. Studies and drills were carried out according to schedule. Church services were held on Sunday by the Executive Officer.

Lifeboat drills were held as follows: June 6, boat in water, 2 minutes; buoy picked up, 6 minutes; boat hoisted, 15 minutes. June 11, boat in water, 1 minute 3 seconds; buoy picked up, 3 minutes 30 seconds; boat hoisted, 13 minutes. June 12, boat in water, 2 minutes; buoy picked up, 5 minutes; boat hoisted, 11 minutes.

Ponta Delgada

The foretopsail yard was sent ashore at Ponta Delgada on the afternoon of the day of arrival, June 17. It was returned on board on the 21st and hoisted in place. An excellent job of repairs was done.

The cadets' basketball team played the team of the Club Michaelensi on the 20th, winning by a score of 25 to 12; and the team of the Lyceum High School on the 21st, losing by a score of 20 to 11.

Pulling boats were used entirely, the motor launch not being hoisted out. Considerable boat sailing was held.

En Route to Plymouth

The "Nantucket" got underway for Falmouth at 11.40 A. M. on the 22nd, with fine weather conditions. Upon rounding the eastern end of San Miguel a northwesterly swell was encountered, and for the next three days the ship did considerable rolling (as high as 28° being recorded), until the wind freshened and the fore and aft sails became effective.

On the evening of the 26th, at 9.03 P. M., the main engine stopped due to broken HP valve gear rocker arm. The ship was put under sail, and so continued until 8.10 A. M. of the 28th when temporary repairs having been made, the engine was coupled up. The ship at that time was practically becalmed. The broken rocker arm indicated a very old fracture or, more likely an original flaw, to the extent that less than half of the metal was holding. The member is of wrought iron. Repairs were effected by slotting the rocker arm to a depth of 1½" and inserting a piece of 1½x5x10, cut from the emergency tiller. This patch was held in place by two 1" tap and through bolts in the shaft end and rocker arm respectively. Then a strap ½x3x15 was bolted on edge of rocker arm across break with 5¾" tap bolts extending into the patch piece. By continuous work of the Chief Engineer and his assistants repairs were completed by midnight of the 27th and the engine turned over disconnected. The wind was dying out at midnight and the ship was practically becalmed when the engine was coupled up at 8.10 A. M. on the 28th. The ship then proceeded at low speed, about 38 revolutions, which was later worked up to about 45 revolutions. Examination on the evening of the 28th showed the patch holding well.

A request was sent to the American Consul, Plymouth, for information as to repair facilities at Falmouth. Reply was received that repairs could not be made there, and that the only facilities at Plymouth were at the Royal Naval Dockyard. The Chief of the Bureau of Engineering was advised and his approval of repairs requested.

Drills and studies were conducted in accordance with schedule. It was found necessary to modify the schedule of studies of the 3rd and 4th classes to the extent of substituting ship's work for afternoon periods as ship's work was being neglected. Man overboard drill was held on the 24th as follows: boat in water, 1 minute 10 seconds; box picked up, 3 minutes 40 seconds; boat hoisted, 10 minutes 30 seconds.

A despatch was received from the Naval Attache, London, saying that the British Admiralty authorized "Nantucket" main engine repairs at Plymouth Dockyard.

Plymouth

At Plymouth the "Nantucket" was berthed well out, more than a mile from the boat landing. This was due to the fact that a large number of yachts were in for the Regatta. The American yachts "Yankee" and "Atlantic" were in port. On July 3 the Regatta was held. The "Nantucket's" three cutters raced as one event. The starboard watch, Cadet Coxswain Terry, won; with port watch, Cadet Senior Officer Ludden, a close second; and engineer Cadet Coxswain Morgan third.

A boat from Royal Dockyard came alongside on July 1 for the broken rocker-arm. The new rocker-arm was delivered on board on July 4 and was at once installed.

July 4 was observed in the usual manner. The "Nantucket" dressed ship and the British ships in port did likewise. Usual watch liberty was granted except that on the 3rd a quarter watch was sent and on the 4th, three-quarters was sent. Cadets had much sailing while at Plymouth.

En Route to London

No drills or studies were held during the passage to London. The 5th was utilized as a Field Day, and the 6th for painting.

London

In London regular watch liberty was granted except on the 11th and 12th. A handsome silver trophy cup, the Drake Trophy, was received from Plymouth for the winning crew of our event in the Regatta. The cadets played a game of baseball with the Anglo-American team.

En Route to Cadiz

The run down the channel was uneventful except that in the evening of the 16th, we passed the New York Schoolship, the "Empire State" close aboard. bound from Queenstown to London, and exchanged signals with her.

Upon clearing the English Channel on the 18th, a moderate WSW wind was encountered and the ship was put under sail but, as the course made good was leading into the Bay of Biscay, sail was furled at night and steaming was resumed. The following day the same procedure was followed, and in the morning of the 20th the ship was again under sail. This day the wind hauled to the northward, and the ship continued under sail until the evening of the 22nd, when, the wind dying out, the engine was again coupled up. The ship was again put under sail in the evening of the 23rd and thus proceeded until the morning of the 24th when, the wind falling light, steaming was resumed; later, however, the wind freshened and, after rounding Cape St. Vincent, about noon, the engine was uncoupled and the ship proceeded under sail to within about 40 miles of Cadiz. Studies and drills were conducted in accordance with schedule.

Lifeboat drills were held as follows: July 16, boat in water, 1 minute; box picked up, 4 minutes 20 seconds; boat hoisted, 9 minutes. July 18, boat in water, 1 minute 10 seconds; box picked up, 3 minutes 50 seconds; boat hoisted, 9 minutes 30 seconds; July 23, boat in water, 1 minute; box picked up, 3 minutes 40 seconds; boat hoisted, 7 minutes.

Cadiz

The boat was berthed at Cadiz immediately off the inner harbor, a little more than a mile from the boat landing. Owing to the distance off, the motor launch was used for liberty trips and late running trips. Pulling boats were used for other trips. Regular watch liberty was granted. The Catholic cadets attended Mass at the Cathedral. Swimming over the side was held daily. Boating under sail was held on Friday.

En Route to Gibraltar

The run to Gibraltar was uneventful except for the fog which shut in as Tarafa Point was passed.

Gibraltar

The H. M. S. "Arethusa," a new 5,000 ton cruiser, was in port, and on August 2, a division of six destroyers arrived. The athletic fields were placed at the disposal of the cadets. They were not used, however, as those on liberty spent their time in sightseeing and shopping, and those on board were engaged in ship's work. A number of cadets visited the Galleries of the Rock.

En Route to Casa Blanca

On entering the Strait of Gibraltar, a message was received from the French vessel "Pim"-22, Lidou, Master, asking if the "Nantucket" could give a medical consultation in French. Upon replying in the affirmative, the case was stated and Dr. Wilkins diagnosed the case and gave his advice.

In the morning of the 5th a ten foot shark was caught and hoisted aboard. In the afternoon of the same day large schools of what appeared to be Spanish mackerel swam around the ship.

Casa Blanca

The port of Casa Blanca is a splendid modern development, and is particularly well equipped. Vessels were coming and going all the time. On one day on one watch, thirteen steamers departed. While the harbor is well protected by jetties, in the winter storms it is sometimes necessary for the vessels to quit the harbor.

A considerable number of cadets took advantage of the splendid bathing pools of the city. Swimming on the beaches is very dangerous due to the heavy undertow. But the city is well equipped with pools both for Europeans and for natives.

Santa Cruz, Teneriffe

Santa Cruz is a port of call of vessels plying between European ports and West African and eastern South American ports. The jetty was fully occupied at all times, and numerous vessels were generally anchored outside awaiting a berth.

The usual liberty by watches was granted. The cadets' baseball team played the Teneriffe Baseball team, being beaten by a score of 20 to 12. There were about 500 or 600 people present at the game. Privileges of the Casino De Teneriffe were extended to officers and cadets.

En Route to Bermuda

Drills and studies were conducted in accordance with the schedule except that no drills were held during the examination period. Unusual interest has been shown in signalling of which much has been going on about the deck during cadets' spare time. Church services were conducted by the Executive Officer as usual. Unusually strong trade winds were encountered.

St. George, Bermuda

The Corporation Secretary invited the officers and cadets to visit the caves and Government Aquarium. A special car was provided and all who went had a very enjoyable time. The Bermuda Sailors Home placed its facilities at the disposal of the cadets.

The anchorage at St. George was convenient to the boat landing. Pulling boats were used entirely. Boat crews were also exercised under sail.

The passage to Mattapoisett was without incident. On the second day out there was a rather heavy confused sea and the ship rolled up to 25°, which combined with a considerable pitch shook a good many cadets off their sea legs. From noon of the 8th to noon of the 9th a distance of 232 miles was made good. No Man's Land was sighted at 6.30 P. M. On passing Vineyard Lightvessel, a driving rain occurred and visibility was reduced to nearly zero. Preparations were made for anchoring at once, but it was merely a passing squall and course was continued. The "Nantucket" anchored in Buzzards Bay off Mattapoisett at three minutes past midnight on September 10. At 6.30 A. M. the ship proceeded to selected anchorage in the harbor of Mattapoisett.

Cruise Mileage

	Days	Hours	Minutes	Miles
Steam	27	08	41	4,180
Sail	23	12	21	3,050
Steam and sail	19	06	56	3,397
Total at sea	70	03	58	10,627
In port	58	15	34	

Coal Report, 1935 Cruise

On hand and expended	735.000 tons
Expended	700.000 tons
Remaining September 17	35.000 tons

Items

Moving ship	421.750 tons
Auxiliaries and lighting	208.900 tons
Distilling	62.650 tons
Galleys	6.700 tons
Total expended	700.000 tons

Graduation Exercises

The eighty-first graduation exercises were held on board the "Nantucket" at the Navy Yard, Charlestown, on Tuesday, April 2, 1935, at 11 A. M. The program was as follows:

Invocation: Rev. Dan Huntington Fenn, Chaplain, House of Representatives.

Presiding Officer: Mr. Clarence E. Perkins, Chairman of the Board.

Address: Lieutenant Governor Joseph L. Hurley.

Address: Mr. Miles Wambaugh, President, Boston Port and Seamen's Aid Society.

Address: Capt. Harold E. Cook, U. S. N., Acting Commandant, Navy Yard, Charlestown.

Address: Capt. Jesse B. Gay, U. S. N., Chief of Staff, Navy Yard, Charlestown:.

Presentation of Boston Marine Society Prize by Capt. Joseph Kemp, Secretary, Boston Marine Society:

To the graduate excelling in those qualities making for the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership:—Herman Kastberg of Worcester.

Presentation of Prizes awarded and presented by Mr. Arthur M. Wiggin of Brookline:

To the graduate in the Seamanship Class making the greatest improvement in all around work during the past year: Richard T. Spear of Sharon.

To the graduate in the Engineer Class making the greatest improvement in all around work during the past year:—Ralph W. Nichols of Lynn.

Presentation of The Society of the War of 1812 Prize by Col. Frederic Gilbert Bauer, President of the Society:

To the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States:—Matthew J. O'Brien of Mattapan.

Presentation of Prize awarded by the Massachusetts State Society, United States Daughters of 1812 by Mrs. Henry Anthony Fiske, President:—

To the graduate of the Engineering Division standing highest in Engineering and Electricity:—Matthew J. O'Brien of Mattapan.

Presentation of Bibles: Rev. Dan Huntington Fenn. (The Bibles are the gift of the Massachusetts Bible Society.)

Presentation of Diplomas by Mr. Frank W. Wright, Director, Division of Secondary Education and Teachers Colleges, Massachusetts Department of Education.

The eighty-second graduation exercises were held on board the "Nantucket" at the Navy Yard, Charlestown, on Tuesday, September 24, 1935, at 11 A. M.

Prayer: Capt. Thomas B. Thompson (Ch. C.), U. S. Navy.

Presiding Officer: Mr. Clarence E. Perkins, Chairman of the Commissioners of the School.

Address: Thomas H. Buckley, Auditor of the Commonwealth.

Address: Rear Admiral Walter R. Gherardi, U. S. N., Commandant of the First Naval District.

Prize awarded by the late Irving L. Wood to the graduate having the highest marks in Seamanship and Navigation for the year. Presented by Capt. Walter K. Queen, Commissioner of the School, to: Herman Kastberg, of Worcester.

Prize awarded by the Boston Marine Society to the graduate excelling in those qualities making for the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, and ability to attain and maintain leadership. Presented by Capt. George E. Eaton, Superintendent, 2nd Lighthouse District, Boston, to: Conrad W. Fisher of Needham.

Prizes awarded by Mr. Arthur M. Wiggin of Brookline to the graduate in the Seamanship Class and to the graduate in the Engineering Class making the greatest improvement in all around work during the past year. Presented by Mr. Wiggin to: Francis J. Lucek, of Millville, Seamanship Class; John R. Madden, of Malden, Engineer Class.

Prize awarded by The Society of the War of 1812 to the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States. Presented by Col. Frederic Gilbert Bauer, President of the Society, to Albert E. Collis, of Salisbury.

Prize awarded by the Massachusetts State Society, United States Daughters of 1812, to the graduate in the engineering division standing highest in engineering and electricity. Presented by Mrs. Henry Anthony Fiske, President, to Albert E. Collis, of Salisbury.

Prize awarded by Mr. William H. Dimick, Secretary of the Board, to the graduate receiving the highest average for the course. Presented by Mr. Dimick to Richard F. Ludden, of Abington.

Presentation of Bibles given by the Massachusetts Bible Society: Chaplain Thompson. (The Bibles are the gift of the Massachusetts Bible Society.)

Presentation of Diplomas: Dr. Payson Smith, Commissioner of Education, Massachusetts Department of Education.

Lectures: Winter Term, 1934-35

1934

Nov. 2. Capt. Clarence A. Abele, U. S. N., Superintendent of the School. Subject: "Carrying On."

Nov. 9. Mr. Horace Taylor. Subject: "Astronomy" (Slides and Models).

Nov. 16. Comdr. C. P. McFeaters, U. S. N., Harvard College. Subject: "Collisions and Groundings."

Nov. 23. Mr. G. H. Noyes, Weather Bureau. Subject: "Construction of Weather Charts (Forecasting).

Dec. 7. Mr. Norman E. Merrill, Executive Officer of the School. Subject: "Painting." Motion Picture.

Dec. 14. Mr. Columbus Iselin, Jr., of Woods Hole. Subject: "Oceanography—Ocean Currents, Origin and Development of Tides."

Dec. 21. Mr. Ervin L. Kelley, Chief Marine Engineer of the School. Motion Picture.

1935

Jan. 4. Capt. Charles M. Lyons, U. S. Steamboat Inspection Service. Subject: "Lessons from the Morro Castle Disaster."

Jan. 11. Capt. Francis X. Landrey. Subject: "Stowage and Care of Cargo."

Jan. 18. Mr. John Stewart, U S. Steamboat Inspection Service. Subject: "Boiler Inspection."

Jan. 25. Capt. Herman T. Parker, Eastern Steamship Lines. Subject: "Selection of Deck Officers."

Feb. 1. Mr. Samuel E. Morison. Subject: "Sea Traditions of Massachusetts."

Feb. 8. Columbian Steamship Company. Motion Picture.

Feb. 15. Capt. Clarence A. Abele, U. S. N. Subject: "Transporting Troops."

Mar. 1. Mr. Frank L. Goudey. Subject: "Selection of Engineer Officers."

The School Record

During the year there have been 186 students on the rolls of the school. They came from 82 cities and towns of the Commonwealth as follows:

Abington	1	Millville	1
Andover	1	Milton	4
Arlington	2	Montague	1
Athol	2	Needham	3
Attleboro	2	New Bedford	8
Auburndale	1	Newton	2
Avon	1	North Andover	1
Bellingham	1	North Wilbraham	1
Belmont	1	Norwood	2
Beverly	3	Orange	1
Boston	17	Pittsfield	2
Braintree	2	Pocasset	1
Bridgewater	2	Quincy	5
Brockton	5	Reading	1
Brookline	2	Rochdale	1
Cambridge	3	Rowley	1
Concord	2	Salem	2
Dedham	1	Salisbury	1
Easthampton	3	Saugus	1
Everett	1	Segreganset	1
Fairhaven	2	Sharon	2
Fall River	2	Shrewsbury	1
Falmouth	2	Somerville	4
Fitchburg	3	South Swansea	1
Florence	1	Southwick	1
Framingham	1	Springfield	5
Gardner	1	Stoneham	2
Gloucester	3	Taunton	2
Haverhill	6	Wakefield	1
Hingham	1	Waltham	1
Hudson	1	Watertown	2
Lawrence	3	Waverly	1
Lexington	1	Wellesley	2
Lowell	1	West Acton	1
Lynn	7	Westfield	2
Malden	5	Whitinsville	1
Manomet	1	Winchester	1
Medford	2	Winthrop	3
Melrose	2	Wollaston	4
Methuen	2	Worcester	6
Middleboro	2	Yarmouth	1
		Total	186

The previous education of these students was as follows: High schools, 167; technical schools, 9; colleges, 6; academies, 3; vocational school, 1. The average age of the cadets at entrance was 18 years, 4 months. The number of cadets enrolled in the school at present is 115.

Officers and Instructors

Clarence A. Abele, Captain, U. S. N. (retired), Superintendent.
Robert M. Gray, Lieutenant, U. S. N. R. (graduate M. N. S.), Executive Officer.
John W. Thompson (graduate M. N. S.), Navigator.
Richard T. Rounds (graduate M. N. S.), Watch Officer.
Louis A. Woodland (graduate M. N. S.), Watch Officer.
Ervin L. Kelley, Lieutenant, U. S. N. R. (graduate M. N. S.), Chief Marine Engineer.

Norman L. Queen (graduate M. N. S.), Assistant Marine Engineer.
John E. Wright, Instructor in Mathematics.
Francis J. Cameron, Instructor in Mechanical Drawing.
Robert W. Wilkins, M. D., Surgeon, Summer Term.
Robert S. Palmer, M. D., Surgeon, Winter Term.
Charles Parker, Paymaster.

Cadet Officers of the Massachusetts Nautical School

Summer Term

Navigation

Richard F. Ludden . . . . . *Senior Cadet Officer*
Donald W. Marsh . . . . . *Junior Cadet Officer*

Engineering

Albert E. Collis . . . . . *Senior Cadet Engineer Officer*
Myron C. Thomas . . . . . *Junior Cadet Engineer Officer*

Winter Term, 1935-1936

Navigation

Ernest W. Bemis . . . . . *Senior Cadet Officer*
Andrew P. L. Nielsen . . . . . *Junior Cadet Officer*

Engineering

Robert H. Jacobs . . . . . *Senior Cadet Engineer Officer*
Edward Novak . . . . . *Junior Cadet Engineer Officer*

Cadets Admitted, Graduated, and Honorably Discharged, from 1893 to 1935, Inclusive

	Admitted	Graduated			Honorably discharged	Withdrawn, dismissed, dropped	Number connected with the school
		Seamanship Class	Engineer Class	Totals			
1893	141	—	—	—	29	24	138
1894	63	—	—	—	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	138
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
1929	71	23	29	52	12	7	189
1930	62	33	19	52	8	3	180
1931	74	38	19	57	6	9	191
1932	50	23	22	45	2	3	169
1933	65	40	30	70	5	1	184
1934	55	20	20	40	4	1	163
1935	68	40	22	62	7	2	186
Total	3054	909	791	1700	744	496	

Membership of the School
Graduating Class, April, 1935

Seamanship Division

*Kastberg, Herman	Worcester
*Bromberg, Carl H.	Somerville
*Spear, Richard T.	Sharon
*Olsen, John E.	Quincy
*Johnson, Lawrence S.	Lynn
*White, Richard J., Jr.	Wollaston
*Canfield, Robert B.	Pittsfield
*Lister, John K.	Beverly
Griffin, Gerald J.	New Bedford
*Mills, William H. A., Jr.	Framingham
Gifford, A. Russell	New Bedford
Hughes, Francis J.	Roslindale
*Abrams, Sumner J.	Brookline
Swain, Kenneth W.	Melrose Highlands
*Currier, Malcolm S.	Newtonville
Thomas, Walter, Jr.	Fairhaven
*Hosmer, Herbert B., Jr.	Concord
*Hoyt, Willard D.	Athol
Mascarenhas, Anthony	Gloucester
Currie, Allan B.	Medford
Evans, Robley J.	Everett
Moran, Edmund F., Jr.	East Boston
Mifflin, Chester L.	Medford
Theriault, Harold J.	Gloucester

Engineering Division

*O'Brien, Matthew J.	Mattapan
*Brooks, Harold E.	Taunton
Kurgan, Anzelm	New Bedford
Gawlocki, Lester R.	Lynn
*Nichols, Ralph W.	Lynn
Jacinto, Francis M.	Taunton
Iacoboni, Mario J.	Fitchburg
Martel, William E.	Montello
David, Raymond C., Jr.	Fitchburg
Edwards, John H.	Haverhill
Sciarappa, Christopher A.	Brockton
Winslow, E. Freeman, Jr.	Norwood

Graduating Class, September, 1935

Seamanship Division

*Ludden, Richard F.	Abington
*Marsh, Donald W.	Waltham
Fisher, Conrad W.	Needham
Hurder, William R.	Beverly
Fick, William F.	Roslindale
Simmons, Morton A.	Falmouth
Terry, Russell H.	Beverly
Campbell, Cyrus H.	Boston
Kuralt, Richard M.	Springfield
Lucek, Francis J.	Millville
Robbins, Allan F.	Brockton
Boyle, Donald E.	Roxbury
Martin, Donald B.	Springfield
Murphy, Joseph C.	Dorchester
Curtis, Samuel DeV.	Bellingham
Kelley, Robert M., Jr.	S. Yarmouth

(*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.)

Engineering Division

*Thomas, Myron C.	Brockton
Collis, Albert E.	Salisbury
Murray, James	Milton
Morgan, Donald C.	Brockton
Lahti, Veikko, I.	Gardner
Gesmundo, Jack	Haverhill
Rioux, Raymond H.	Fairhaven
Fisher, Francis S.	Needham
Lewis, Charles E.	Lynn
Madden, John R.	Malden

CLASS TO GRADUATE, APRIL, 1936

Seamanship Division

*Swimm, Charles H.	Winthrop
Bemis, Ernest W.	W. Bridgewater
*Nielsen, Andrew P. L.	Jamaica Plain
Corriveau, Martial P.	Salem
Doe, Wilber S.	Somerville
Ramey, James L.	Hudson
Ludy, Ralph W.	E. Braintree
Gotovich, Edward G.	Norwood
Call, Edwin F.	Lowell
Staples, Stanley M.	Haverhill
Clark, Edward A.	Malden
Sholes, Harold L.	Rowley
Parkhurst, Roland E.	West Acton
Gallagher, John H.	Lawrence

Engineering Division

*Jacobs, Robert H.	Worcester
*Novak, Edward	Easthampton
*Brown, Richard C.	Attleboro
Rico, Albert F., Jr.	Arlington
Donahue, Timothy E., Jr.	Haverhill
Kudlay, Anthony	Easthampton
Burgo, Daniel F.	New Bedford
Forsythe, Chester, Jr.	Quincy
Milner, Gordon B.	Rochdale
Richmond, Frank R.	Springfield

CLASS TO GRADUATE, SEPTEMBER, 1936

Seamanship Division

Mushet, Robert A., Jr.	Arlington
*Ellis, Carl C.	Winchester
Brown, D. Webster, Jr.	New Bedford
Wickham, Joseph F.	Winthrop
Shockley, Wilson I.	Bridgewater
Bryce, Forbes O.	Montague
Kelley, Arthur S.	Avon
Davies, W. Kenneth	Florence
Anderson, John W.	Wellesley Hills
*Serafin, Edward F.	Worcester
Thompson, Owen E.	Attleboro
Dietrich, George S.	Dorchester
Schmidt, Harold T.	Athol

Engineering Division

Rolfe, Thomas W.	Stoneham
Hemmerly, William H., Jr.	Manomet
Potter, Andrew B., Jr.	Auburndale
Hamilton, Edwin A.	E. Dedham

(*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.)

Collins, Richard B.	Milton
*Jackson, Howard B.	Melrose
*Sullivan, John L.	N. Wilbraham
Greeley, Gerald G.	Dorchester
Dayton, Charles J.	Wakefield
Dawson, James J.	Pittsfield
Barlow, Robert S.	Worcester
Allen, Thorwald C.	N. Andover

Class to Graduate, April, 1937

Beatteay, Walter E.	Lexington
Litchfield, Francis A.	Malden
Hayden, Willis M., Jr.	Quincy
Littlefield, Nathan W.	Sharon
Perkins, William W.	Hingham
Guild, George S.	E. Milton
Hiorth, Anders S.	Wollaston
Brown, Irwin W.	Whitinsville
Matheson, David W.	Quincy
Richmond, Edward T.	Springfield
David, Joseph E.	Fitchburg
Costello, David L.	Milton
Zylinsky, Stanley B.	Methuen
Dexter, Edwin B.	Roslindale
Ellis, Arthur G., Jr.	Methuen
Mulcahey, James A., Jr.	Westfield
Fielden, Robert W.	Andover
Reed, Roy B., Jr.	Lynn
Kuta, Benjamin	Easthampton
Larsen, Peter W.	Cambridge
Uzdavinis, Leon A.	Haverhill
Hurwitch, Martin B.	Mattapan
Rowlands, Walter, 2nd	Needham
Larsen, Karl J.	Somerville
Tomassian, M. Vahan	Watertown
Leary, Charles J.	Fall River
Knight, Ralph H.	Gloucester
Paul, Charles	Lawrence
Carlson, Gustav B.	Newton Centre
Korman, Fenton F., Jr.	Springfield
Hathaway, Louis S.	Middleboro
Hiffe, George E.	Cambridge
Gallison, Raymond M.	Haverhill
Tewksbury, Alfred B.	Winthrop
Crowell, Cutler C.	Wellesley

Class to Graduate, September, 1937
(Alphabetically arranged)

Arrigo, Philip M., Jr.	East Boston
Banner, Roger H.	Segreganset
Bowden, Frederick W.	New Bedford
Bowers, Carl F.	Dorchester
Cain, John R.	Quincy
Clayton, John	New Bedford
Crown, Roger A.	Wollaston
Donnelly, James A.	South Boston
Dow, Chester A., Jr.	Malden
Edmands, John R.	Concord
Elder, John A.	Waverly
Estey, Roland H., Jr.	Reading

(*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.)

Fraser, Robert G.	Wollaston
Gietek, John S.	Westfield
Greany, Thomas H., Jr.	S. Swansea
Hallett, Robert W.	Braintree
Hathaway, Holland M.	Malden
Herlich, Joseph	Lynn
Jordan, Richard A.	Sagamore
Kennedy, William T.	Middleboro
Kuechler, Clifton S.	New Bedford
Larsen, Lawrence N.	Somerville
Lear, Daniel M.	Belmont
Moore, James F.	Stoneham
Nath, Carl J.	South Boston
O'Neil, Richard V.	Brookline
Perry, Taber B.	Pocasset
Pitman, Paul W.	Saugus
Rand, Melvin A.	Orange
Rose, John P., Jr.	New Bedford
Wayman, Charles S., Jr.	Falmouth

Appropriations

The appropriations for the school for the fiscal year 1935, from December 1, 1934, to November 30, 1935, are accounted for as follows:

Expenses of Schoolship	Appropriation	Expenditures
Personal Services	$44,405.00	$45,197.17
Travel, transportation and office expenses	990.00	976.78
Food	21,500.00	23,442.15
Furnishings and household supplies	1,120.00	997.99
Medical and general care	1,280.00	2,065.97
Heat, light, power, etc.	8,000.00	7,078.41
Repairs	2,400.00	2,259.61
Miscellaneous	3,600.00	2,866.11
	$83,295.00	$84,884.19
Deficiency	1,589.19	
	$84,884.19	$84,884.19
Expenses of Commission		
Office supplies and equipment	$326.74	$288.72
Traveling and other services and expenses	1,875.00	1,891.46
	$2,201.74	$2,180.18
Balance		21.56
	$2,201.74	$2,201.74
Personal Services		
Commissioners' office	$4,700.00	$4,769.00
Deficiency	69.00	
	$4,769.00	$4,769.00
Income		
Received from Navy Department	$25,000.00	
Received from tuition and other fees	11,913.77	
Turned over to Commonwealth from accumulated surplus on Clothing Account	4,000.00	
	$40,913.77	

Respectfully submitted,

CLARENCE E. PERKINS, *Chairman,*
THEODORE L. STORER,
WALTER K. QUEEN,
Commissioners.

Federal Legislation

Authority of the United States

H. R. 24145. Approved March 4, 1911.
(Original Act passed June 20, 1874.)

An Act for the Establishment of Marine Schools, and for Other Purposes

That the Secretary of the Navy, to promote nautical education, is hereby authorized and empowered to furnish, upon the application in writing of the governor of a State, a suitable vessel of the navy, with all her apparel, charts, books, and instruments of navigation, provided the same can be spared without detriment to the naval service, to be used for the benefit of any nautical school, or school or college having a nautical branch, established at each of the following ports of the United States: Boston, Philadelphia, New York, Seattle, San Francisco, Baltimore, Detroit, Saginaw (Michigan), Norfolk and Corpus Christi, upon the condition that there shall be maintained at such port a school or branch of a school for the instruction of youths in navigation, steamship-marine engineering, and all matters pertaining to the proper construction, equipment, and sailing of vessels or any particular branch thereof.

Section 2. That a sum not exceeding the amount annually appropriated by any State or municipality for the purpose of maintaining such a marine school or schools or the nautical branch thereof is hereby authorized to be appropriated for the purpose of aiding in the maintenance and support of such school or schools: *provided, however,* that appropriations shall be made for one school in any port heretofore named in section one and that the appropriation for any one year shall not exceed twenty-five thousand dollars for any one school.

Section 3. That the President of the United States is hereby authorized, when in his opinion the same can be done without detriment to the public service, to detail proper officers of the navy as superintendents of or instructors in such schools: *provided,* that if any such school shall be discontinued, or the good of the naval service shall require, such vessel shall be immediately restored to the Secretary of the Navy and the officers so detailed recalled: *and provided further,* that no person shall be sentenced to or received at such schools as a punishment or commutation of punishment for crime.

Section 4. That all laws and parts of laws in conflict herewith are hereby repealed.

State Legislation

General Laws of Massachusetts, 1932

Chapter 15

Department of Education

Section 22. There shall be a board of commissioners of the Massachusetts nautical school serving in the department and consisting of three citizens of the commonwealth, one of whom shall annually before July 1st be appointed by the governor, with the advice and consent of the council, for three years from said day.

Section 23. The commissioners shall serve without compensation, but shall be reimbursed for expenses actually incurred in the performance of their official duties.

Chapter 74

Vocational Education

Section 49. The board of commissioners of the Massachusetts nautical school shall provide and maintain a nautical school for the instruction of students in the science and practice of navigation, accommodations therefor on board a

proper vessel, books, stationery, apparatus and supplies needed in the work thereof, and appoint and remove necessary instructors and other employees, determine their compensation, fix the terms upon which students shall be received and instructed therein and discharged therefrom, make all regulations necessary for its management and provide from time to time for cruises in or from Boston harbor.

SECTION 50. The board may receive from the federal government, and use for the accommodation of the school, vessels detailed by the secretary of the navy.

SECTION 51. In addition to the advances authorized by section twenty-three of chapter twenty-nine, the state treasurer shall, upon requisition by the board to the comptroller, make an advance for said cruises of not exceeding ten thousand dollars for six months to the commanding officer of the vessel detailed therefor, who shall give bond in the sum of ten thousand dollars, with sureties approved by the governor and council, for its proper disbursement. Said advance shall be accounted for by properly approved vouchers within thirty days after the termination of said cruises.

SECTION 53. The commissioner shall make an annual report relative to the Massachusetts nautical school.

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THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF EDUCATION

ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1936

MASSACHUSETTS NAUTICAL SCHOOL
100 NASHUA STREET, BOSTON

PUBLICATION OF THIS DOCUMENT APPROVED BY COMMISSION ON ADMINISTRATION AND FINANCE
800. 2-'37. Order 9807.

THE COMMONWEALTH OF MASSACHUSETTS

DEPARTMENT OF EDUCATION

JAMES G. REARDON, *Commissioner of Education*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL

100 NASHUA STREET, BOSTON

CLARENCE E. PERKINS, *Chairman*
THEODORE L. STORER
WALTER K. QUEEN

WILLIAM H. DIMICK, *Secretary*

REPORT OF THE COMMISSIONERS

To the Commissioner of Education:

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1936, the forty-fifth annual report.

SCHOOL CALENDAR, 1936

Spring entrance examinations	March 26, 27 and 28
Winter term ended	March 31
Spring graduation	March 31
New class reported	April 15
Summer term commenced	April 29
"Nantucket" sailed from Boston	May 9
"Nantucket" arrived at Boston	September 14
Autumn entrance examinations	September 17, 18 and 19
Summer term ended	September 22
Autumn graduation	September 22
New class reported	October 16
Winter term commenced	October 26

THE APPEAL OF THE SEA

The call of the sea has been an especially alluring one to the sons of Massachusetts. Since colonial days, the State has been well represented in the American merchant marine and in the Navy. The rugged coast of Massachusetts has been the recruiting ground for many of the men who have made our nation great for heroic achievement upon the sea. Many young men in all parts of the State find the call of the sea an irresistible one; they have not failed to answer the call in the past, and they will not in the future. In the days of sail "few could grow up in a seaport town and resist the lure of the sea. For boys in the inland towns, seafaring afforded the only alternative to clodhopping, the sole means of foreign travel, and the opportunity to gather wealth."

At the present time a seafaring life does not fascinate in the same manner as it did seventy-five or one hundred years ago. The element of excitement and adventure is not present as it was in the early days. There are no unknown regions to incite and stir the imagination, there are no pirates in the far east to contend with, and travel in distant lands is not so rare. Much of the romance

and dangers of the sea departed with the disappearance of the white winged sailing vessels.

The new merchant marine, however, with its larger and faster ships and improved equipment and conditions, is not failing to attract lads who have an inclination for the sea, and who look upon the calling as one worthy of their highest efforts. The mariner is more safely guarded against the dangers of the sea. Many improvements and inventions have minimized the dangers of ocean travel; water tight compartments, the wireless telegraph, radio compass, submarine signal apparatus, the fathometer, and other navigational aids, have contributed to the element of safety at sea. Modern ships are better equipped for the comfort and convenience of both passengers and crew.

The Purpose of the Nautical School

The work of the school is twofold. First and foremost, it is preparing young men of the State between seventeen and twenty years of age for officers' positions on board American ships. It is a public vocational school offering instruction in seamanship and marine engineering. A large percentage of the 1,745 graduates are following the vocation for which they were trained, as officers in the merchant marine, United States Coast Guard, United States Navy, and the Lighthouse Service. Sixty graduates are serving as officers in the American Hawaiian Line, nine of whom are in command of ships; the commodore captain of the line is a graduate of this school. Fifty graduates are officers in the United Fruit Line. Second, the school is indirectly providing qualified men for service as officers in the United States Naval Reserve Force. During the Spanish American War and again in the Great War, the graduates constituted an important element in the military organization, contributing to the successful operation of the Navy, the transports and merchant shipping.

The Massachusetts Nautical School during the past forty-three years has been doing its full share in maintaining the sea traditions of the State as will be seen by the register of graduates printed in the catalogue of the school.

The school was established by Act of the Legislature in 1891, for the purpose of preparing young men for service as officers in the American mercantile marine. The school offers theoretical and practical instruction in seamanship, navigation, marine engineering and electricity. The school is conducted on board the Schoolship "Nantucket", a vessel of 1261 tons, of iron construction, accommodating 118 cadets. The Commanding Officer of the "Nantucket" and the Superintendent of the school, is a retired officer of the United States Navy. The course of study and practical work occupies two years. The year is divided into a winter and summer term. During the winter term, which includes practical and theoretical instruction, the ship is berthed at the Navy Yard, Charlestown. The Summer term is occupied with the practise cruise, usually to European ports.

A deposit of $300 is required before an applicant enters the school, and another deposit of $150 at the beginning of the second year. The entrance examinations, which are strictly competitive, are held in Boston and Springfield in March and September. The age limit of candidates, who must be sons of residents and citizens of Massachusetts, is from seventeen years to the twentieth birthday. A graduate of the school is eligible for examination for a United States certificate as third officer or third assistant engineer.

There is always a good demand for competent officers on board American ships, and the young men leaving the school are absorbed in the merchant service shortly after graduating.

A catalogue of the school can be obtained at the office of the Commissioners, 100 Nashua Street, Boston.

Report and Statistics for the Year

The work continues to be maintained at a high standard. Under an efficient corps of officers and instructors, the year has been one of progress. During the

winter term, through the courtesy of Rear Admiral Walter R. Gherardi, U.S.N., Commandant of the First Naval District, the Schoolship "Nantucket" was berthed as usual at the Navy Yard, Charlestown, and class rooms in a building in the Yard were assigned to the school.

A detailed account of the practise cruise will be found on the following pages of this report. On account of the war in Spain, it was not advisable to carry out the itinerary in all its details; Vigo was omitted and a stay of two days was made in Gibraltar instead of the usual six days.

On February 26, the "Nantucket" was towed into the dry dock at the Navy Yard for the annual overhaul. The Federal government expended $16,262 on repairs; $13, 733 on hull and rigging, and $2,529 in the engineering department. In addition extensive repairs were made to navigational instruments at the Naval Observatory.

Just before the ship sailed on the practise cruise, the radio set on board was replaced with a more powerful equipment. The present set includes a high frequency transmitter, an all wave marine receiver, and all the latest improvements. This replacement was necessary in order to conform to the new rules and regulations of the Federal Communications Commission.

The Commissioners gratefully acknowledge the receipt of a bequest of nautical books belonging to the late Capt. George V. Williams of Wellfleet. A sextant left by Captain Williams to the Boston Marine Society was awarded as a prize to the graduate in the September class who possessed the most qualities making for the best shipmaster.

Graduates of the School in 1936

The following is a list of the forty-five graduates of 1936, the names of their home towns, and their first employment:

Name	Residence	Vessel	Service
Thorwald C. Allen	No. Andover	S. S. James L. Richards	Mystic S. S. Co.
John W. Anderson	Wellesley Hills	S. S. Leonard	Atlantic Refining Co.
Robert S. Barlow	Worcester	S. S. Astral	Standard Oil Co.
Ernest W. Bemis	W. Bridgewater	M. S. Jeff Davis	Roosevelt S. S. Co.
D. Webster Brown, Jr.	New Bedford	At sea	United Fruit Co.
Richard C. Brown	Attleboro	S. S. American Importer	United States Line
Forbes O. Bryce	Greenfield	S. S. E. J. Bullock	Standard Oil Co.
Daniel F. Burgo	New Bedford	S. S. Gov. John Lind	A. H. Bull and Co.
Edwin F. Call	Lowell	S. S. Cliffwood	American Scantic Line
Edward A. Clark	Malden	S. S. Steel Inventor	Isthmian Line
Richard B. Collins	Milton	S. S. Edward Pierce	Mystic S. S. Co.
Martial P. Corriveau	Salem	S. S. President Roosevelt	United States Line
W. Kenneth Davies	Florence	S. S. Juniata	Merchants and Miners Transp. Co.
James J. Dawson	Pittsfield	S. S. Empire	Cities Service
Charles J. Dayton	Wakefield		
George S. Dietrich	Dorchester	S. S. Juniata	Merchants and Miners Transp. Co.
Wilber S. Doe	Somerville	S. S. Washington	United States Line
Timothy E. Donahue, Jr.	Haverhill	S. S. American Trader	United States Line
Carl C. Ellis	Winchester		
Chester Forsythe, Jr.	Quincy	S. S. Platano	United Fruit Co.
J. Howard Gallagher	Lawrence	S. S. Santa Paula	Grace Line
Edward G. Gotovich	Norwood	S. S. American Farmer	United States Line
Edwin A. Hamilton	E. Dedham	S. S. Toloa	United Fruit Co.
William H. Hemmerly, Jr.	Manomet	S. S. E. J. Sadler	Standard Shipping Co.
Howard B. Jackson	Melrose	S. S. Toloa	United Fruit Co.
Robert H. Jacobs	Worcester	S. S. American Farmer	United States Line
Arthur S. Kelley	Avon	S. S. American Shipper	United States Line
Anthony Kudlay	Easthampton	S. S. American Importer	United States Line
Ralph W. Ludy	E. Braintree	S. S. Virginia	Panama Pacific Line
Gordon B. Milner	Rochdale	S. S. Exhibitor	American Export Line
Robert A. Mushet, Jr.	Arlington	S. S. Alangarez	United Fruit Co.
Andrew P. L. Nielsen	Jamaica Plain	S. S. Washington	United States Line
Edward Novak	Easthampton	S. S. American Importer	United States Line
Andrew B. Potter, Jr.	Auburndale	U. S. Coast Guard Service	
James L. Ramey	Hudson	S. S. American Importer	United States Line
Frank R. Richmond	Springfield	S. S. American Farmer	United States Line
Harold T. Schmidt	Athol	S. S. Evangeline	Eastern S. S. Lines
Edward F. Serafin	Worcester	S. S. City of Dalhart	American Pioneer Line
Wilson I. Shockley	Bridgewater	S. S. Excambion	American Export Line
Harold L. Sholes	Rowley	S. S. Washington	United States Line
Stanley M. Staples	Haverhill	S. S. President Roosevelt	United States Line
John L. Sullivan	No. Wilbraham	S. S. William N. Page	Mystic S. S. Co.
Charles H. Swimm	Winthrop	S. S. Virginia	Panama Pacific Line
Owen E. Thompson	Attlebore	S. S. California	Panama Pacific Line
Joseph F. Wickham	Winthrop	S. S. Howard	Merchants and Miners Transp. Co.

Detailed Report on the Practice Cruise

U. S. S. "Nantucket"—Itinerary 1936

Left—	Arrived at—
Boston, May 9	Provincetown, May 10
Provincetown, May 14	Greenport, L. I., May 15
Greenport, May 19	Yorktown, May 22
Yorktown, May 26	Norfolk, May 26
Norfolk, May 30	Horta, Azores, June 13
Horta, June 18	Rotterdam, Holland, June 29
Rotterdam, July 3	Hull, England, July 6
Hull, July 14	Gibraltar, July 26
Gibraltar, July 27	Funchal, Madeira, August 1
Funchal, August 8	Providence, R. I., August 28
Providence, September 2	New Bedford, September 2
New Bedford, September 8	Cataumet, September 8
Cataumet, September 14	Boston, September 14

The "Nantucket" departed from the Navy Yard, Boston, at 3 P.M., on May 9, in accordance with schedule. The ship was swung for radio compass calibration off Boston lightship, but conditions were not favorable for swinging for magnetic compass deviation. At 7.30 P.M., course was set for Cape Cod. The wind had been freshening while off the lightship, and by the time Race Point was reached the ship had considerable motion. However, the motion subsided when the lee of Cape Cod was made. Speed was then reduced to ⅔, and the ship stood back and forth until daylight. As conditions again were unfavorable for swinging for magnetic compass deviation, course was set for anchorage, and the ship anchored in Provincetown Harbor at 7.20 A.M., on Sunday, May 10.

Provincetown

The stay of the "Nantucket" in Provincetown was utilized to good advantage with sail and general drills. The drills went off smoothly, and the cadets were quick in learning their stations and duties. On May 13 all boats were provisioned for abandon ship, manned, and away from the ship in nine minutes, only necessary watch details remaining on board.

Pulling boats were used for all scheduled trips. The motor launch was hoisted out for tuning up of engine and for instruction of crews. Boats were sent out under sail daily.

The "Nantucket" got underway at 10 A.M. on May 14. Ship was swung for compass deviation off Provincetown and then proceeded. In the afternoon fore and aft sail was set and carried until nearing Pollock Rip. Stonehorse Channel was entered at 10 P.M. Weather was fine and visibility was excellent.

First year cadets were vaccinated and administered first inoculation for antityphoid, while at Provincetown.

Greenport, Long Island

The "Nantucket" arrived at Greenport, Long Island, at 6.56 P.M. on May 15. Routine drills and sail drills were held. Pulling boats were used entirely, the motor launch not being hoisted out. Considerable boat sailing was had. Swimming off the ship was had once, the water temperature being 60°F.

Greenport is an excellent port for our purposes. At the time of our visit yachts were still little in evidence and we had the harbor much to ourselves. We were anchored half a mile from a good boat landing. Our boat crews are developing well.

The "Nantucket" departed from Greenport at 11.26 A.M. on May 19. Visibility was rather low and became worse as we neared Montauk so that we rounded the Point without seeing it. The wind then was dead ahead and the ship pitched considerably. Speed was greatly reduced so that for one hour we logged but 0.6 knots.

On May 20th the wind came fair for sailing and we sailed from 6.57 A.M. to 4.32 P.M. On the 21st life boat drills were held as follows: Starboard watch; boat in water 1 minute, 30 seconds; buoy picked up 4 minutes; boat hoisted 9 minutes, 40 seconds; port watch; boat in water, 1 minute; buoy picked up 3 minutes, 30 seconds; boat hoisted 8 minutes.

During the passage classes were conducted according to routine. The second anti-typhoid inoculation was administered to the first year men.

Chesapeake Bay was entered at 7.30 P.M. on May 21, and the "Nantucket" anchored off the entrance to the York River at 9 P.M. The ship was got underway at 6.30 A.M. and proceeded up the River, anchoring at 8.49 A.M., May 22.

Yorktown, Virginia

The "Nantucket" anchored at Yorktown, at 8.49 A.M., on May 22. Regular routine was carried out except that the 22nd was given over to field day. Pulling boats were used entirely. On account of the strong current there was no boat sailing. Swimming over the side was had at slack water when the time was convenient.

There was not much for cadets to do at Yorktown other than visit the battlefield and the points of historical interest. Quite a number of cadets visited Williamsburg.

The "Nantucket" got underway at 6 P.M. on May 25. The run to Norfolk was without incident.

Norfolk, Virginia

The "Nantucket" anchored off the Naval Operating Base at 9.22 P.M., on May 25. At 10.03 A.M. the next day, the ship got underway and proceeded into the Submarine Basin, berthing at Pier 7.

One hundred and eighty-seven tons of coal were taken, of which 27 tons were bagged on deck. The cadets handled the coal expeditiously. The job was finished two hours earlier than estimated.

Regular watch liberty was granted, and a few special liberties were granted for cadets to visit relatives in accordance with requests of parents. Routine morning drills were held on the 27th and the 28th.

The "Nantucket" cast off from the dock and proceeded on voyage at 6.04 A.M. on May 30. Fine weather conditions prevailed. Soon after departure the third anti-typhoid inoculation was administered to cadets of the third and fourth classes. The last of the deckload of coal was struck down in the morning of June 3.

Generally fine weather prevailed throughout the voyage, but winds were light and generally easterly. There was very little sailing and that in the early part of the passage. Numerous vessels were sighted and on the morning of June 11, the "Vulcania" passed and radioed that she had a bag of mail for us addressed to Horta.

Drills were conducted in accordance with routine and studies as per schedule. The spirit of the cadets has been excellent. Drills have been very satisfactorily performed. Life boat drills were conducted as follows: June 1, boat in water, 1 minute 25 seconds; buoy picked up 6 minutes 20 seconds; boat hoisted 15 minutes, 15 seconds; June 3, boat in water 1 minute; buoy picked up 3 minutes 35 seconds; boat hoisted 9 minutes 50 seconds; June 5, boat in water 50 seconds; buoy picked up 4 minutes 6 seconds; boat hoisted 9 minutes 10 seconds; June 8, boat in water, 58 seconds; buoy picked up 3 minutes 51 seconds; boat hoisted 8 minutes 10 seconds; June 11, boat in water 45 seconds; buoy picked up 3 minutes; boat hoisted 8 minutes 15 seconds.

Church services were held on Sundays by the Executive Officer and they were well attended by the cadets. Instructions were given by the Surgeon to Cadets relative to conduct on shore.

The Island of Flores was sighted at dawn on June 12, and the "Nantucket" anchored in the harbor of Horta, with stern to a mooring buoy, at 6.47 A.M., June 13. Upon arrival there remained on board 54 tons of coal.

Horta, Azores

Upon arrival at Horta, a boarding officer came on board from the Naval Training Ship "Sagres". Calls were exchanged with the Commanding Officer of the "Sagres", and the usual calls were made on the Civil Governor, the Military Commandant and the Captain of the Port, which calls were returned and the usual honors rendered.

On June 16 in the evening, the cadets played basketball with a local team and were defeated in a warmly contested game. On June 17 in the evening, the cadets put on a boxing bout and a wrestling bout at a charity benefit entertainment which were much appreciated and well applauded.

Pulling boats were used for scheduled trips. There was some boat sailing; and some swimming was had from the ship. Noonday temperatures were as follows: June 13th, 70; 14th, 71; 15th, 80; 16th, 68; 17th, 64; 18th, 64.

While at Horta it was necessary to employ a diver to recover one of the torches of the starboard Franklin lifebuoy which had been dropped overboard while being cleaned. The diver had the torch within five minutes of going down. The depth was between 7 and 8 fathoms. The ship coaled on the 18th, taking 85 tons of Welch coal.

The "Nantucket" departed from Horta at 12.45, June 18. Upon departure head winds were met and carried until Graciosa Island was rounded, about midnight. The following morning the engine was uncoupled and the ship proceeded under sail. The wind became strong, the sea rough. At 11 P.M., the engine was coupled up as the wind had fallen light, but the following morning the ship was again put under sail and continued to the afternoon of the 21st. Then again in the early morning of the 22nd the ship was again put under sail and so continued to the evening of the 23rd. From noon of the 22nd to noon of the 23rd the ship made good 181 miles under sail.

Considerable fog was encountered in the English Channel. On the 27th the American steamers "West Heron" and the "American Trader" were passed close aboard.

As it appeared that the ship would arrive off Rotterdam at about 10 P.M. on June 28, it was decided to put on a third boiler so as to arrive before dark, and also to make better progress through the strong currents and traffic of Dover Strait. The third boiler was cut in at 7.10 P.M. on the 27th. Fine weather prevailed after sighting Beechy Head.

Maas lightship was reached at 3.50 P.M., June 28, a river pilot taken on board, and the ship proceeded up the Maas. Off the city a harbor pilot came on board, and the ship berthed alongside a quay at a city park (Park Kade) at 7.19 P.M.

Rotterdam, Holland

The visit to Rotterdam was much enjoyed and appreciated by the cadets. They were made welcome and treated cordially. Much interest was shown in the ship and many visitors came on board. The berth assigned by the Harbor Master was an excellent one. Two police officers were on the dock at all times. The crowds were always orderly.

Liberty was granted by watches from 1.30 P.M. to 10 P.M. daily. On the morning of June 30, sail drill was held for a moving picture company to photograph. The National Museum was open to cadets gratis and all had opportunity to visit it. The first and second classes were taken on a tour of the harbor on a tug provided by courtesy of the Harbor Master. While sail drill was being held the Airship "Hindenberg" sailed close overhead. Many cadets rented bicycles and some got to outlying districts. Three cadets were granted special leave to visit friends.

During our stay at Rotterdam a band played nightly in the park close aboard. On our arrival and again on our departure the Star Spangled Banner was rendered. On the night of July 3 a half hour of fire works was displayed from a

barge anchored in the river not far from the ship. Prior to departure the Consul and the Harbor Master came on board to bid us good-bye and to wish us *Bon Voyage.*

Noon day temperatures were as follows: June 29, 76; 30th, 66; July 1, 68; 2nd, 65; 3rd, 62.

To Rotterdam the cruise was made as follows: Voyage to Rotterdam, under steam 2,343 miles; under steam and sail 1,403 miles; under sail alone 831 miles. Voyage from Horta to Rotterdam, under steam 514 miles; under steam and sail 524 miles; under sail alone 580 miles.

The "Nantucket" departed from Rotterdam at 4.12 P.M. on July 3, under two boilers, assisted from the dock by a tug furnished by courtesy of the Harbor Master. As the direct route from the Maas to the Humber would have involved considerable night pilotage inside the Humber Shoals it was decided to take the longer outside route and pass to the northward of the shoals. Even at that it was necessary to run at reduced speed. Opportunity was taken of a favorable gentle breeze to put the ship under sail in the afternoon of the 4th. This permitted of drying out the sails. The passage to the Humber was made without incident. The pilot was picked up on the evening of the 5th at 9.30 P.M. and at 10.45 P.M., the ship was anchored inside Spurn Point for the night. The ship got under way under three boilers at 4.10 A.M. and proceeded to berth at Albert Dock, Hull, England, securing at 8.01 A.M. Two tugs were required in berthing.

It was necessary to have a field day the morning of the 4th. At noon the Declaration of Independence was published. In the evening the cadets had an impromptu celebration,—parading about the deck behind drum and bugle corps, armed with swabs and brooms, and going through the motions of setting off and admiring imaginary fireworks. Usual divine service was held on Sunday.

Hull, England

Parties of cadets visited the Nautical School, Trinity House; a party of twenty was entertained at an outing at the harbor defenses, guests of the Commanding Officer; a party of twenty with Mr. Gray attended a military pageant at Ravensworth Castle, Gateshead, (on the Tyne, 150 miles from Hull), guests of the Commander-in-Chief, and dined with him. They met the Secretary of State for War who was present. Some 36,000 spectators were in attendance. The moving picture houses of Hull were open to the cadets free of charge.

The study schedule was resumed on July 13, and continued on the 14th, liberty being granted from 3 P.M. It was not practical to conduct drills in Hull.

The weather during our stay was quite unsettled with much rain. Noonday temperatures were as follows: July 6, 65; 7th, 68; 8th, 68; 9th, 60; 10th, 58; 11th, 59; 12th, 64; 13th, 66; 14th, 65.

The "Nantucket" departed from Hull with the first tide on July 15, at 2.58 A.M., under two boilers. When east of Goodwin Sands a strong head wind came up and with a head tide, the ship made five knots in four hours. In the early morning of the 17th, the Airship "Hindenberg" was sighted off the Nab, entrance to the Solent. She contacted the "S. S. Europa" and circled round her, coming within less than a mile of the "Nantucket". Numerous British war ships were sighted, one of them apparently of the Nelson class.

Departure was taken from Start Point at 8.38 P.M. on July 17, and at that time a fresh breeze sprang up from the south west which rapidly increased in force to a gale. The following morning, when it was found that only about 20 miles had been made good during the night and that the ship had been set considerably inshore, it was determined to seek shelter and conserve fuel. The ship was put about and proceeded to Tor Bay, anchoring at 2 P.M. A number of freighters were also anchored there.

The "Nantucket" departed from Tor Bay at 8 P.M. on July 19. The weather had moderated and good weather prevailed. It was expected to make Vigo, Spain, in the forenoon of July 23. After receiving radio instructions from the Commissioners, and a communication from the Chief of Naval Operations, Washington, it was decided on account of the economic conditions in Spain to

omit calling at Vigo, and to stay in Gibraltar only long enough to obtain necessary supplies.

The passage to Gibraltar was uneventful except that numerous war vessels were sighted. In the Strait of Gibraltar three Spanish submarines were on patrol. Routine drills and studies were conducted. Life boat drills were held as follows: July 17, boat in water 1 minute, 2 seconds; buoy picked up 4 minutes, 25 seconds; boat hoisted 11 minutes, 20 seconds; July 20, boat in water 1 minute, 10 seconds; buoy picked up 2 minutes, 58 seconds: boat hoisted 7 minutes, 30 seconds; July 23, boat in water 50 seconds; buoy picked up 5 minutes 5 seconds; boat hoisted 11 minutes 40 seconds. It was not practical to sail during the passage as the winds were generally south westerly.

The "Nantucket" arrived off Gibraltar and proceeded to the coal pier at 10.15 A.M., July 26, preparatory to coaling. The battleship "Repulse", numerous destroyers, and three big bombing planes lay in the harbor.

Gibraltar

The stay of the "Nantucket" at Gibraltar was curtailed to two days on account of conditions existing there. The city was full of refugees with the prospects of more (except Spaniards) coming in. The day before the arrival of the "Nantucket", 3000 Spanish refugees were sent to La Linea as that city was then quiet and conditions among the refugees were intolerable.

On Sunday night and Monday forenoon, a battle was raging in the direction of San Roque, a railroad junction not far from La Linea. A P & O liner arrived Monday morning but its passengers were not permitted to visit the city; and a tour ship was diverted by radio.

The U. S. S. "Quincy" arrived shortly after the arrival of the "Nantucket", took oil and departed early the following morning for Malaga.

The cadets were granted liberty by watches, all cadets having one liberty—on Sunday, the usual time, and on Monday from 7 A.M. to noon. The Consul had planned for visits to the Galleries of the Rock and for a party, but these had to be omitted.

One hundred and seventy tons of coal were taken, of which 35 tons were taken on deck. Provisions were scarce but our requirements were met. The weather at Gibraltar during the short stay was fine. The noonday temperatures were July 26, 72; and on the 27th, 74.

The "Nantucket" departed from Gibraltar at 6 P.M. on July 27, under two boilers. In the Strait a strong head wind and an adverse current kept us abreast of Apes Hill for nearly four hours. Finally a third boiler was ordered and when it was cut in at 2 A.M. on July 28, the wind had moderated and the inshore current had turned. We passed Cape Spartel at 4.30 A.M.

Approaching the Strait we saw rebel planes crossing from Algerciras to Ceuta. In the vicinity of Tangier we saw a number of Spanish destroyers and submarines. A destroyer cut close across our bow so that we had to stop to avoid collision. After daylight, off Cape Spartel, a destroyer and a submarine cut in close under our stern to investigate us.

Upon passing Cape Spartel the third boiler was cut, and the wind becoming favorable, the engine was uncoupled at 9.30 A.M., and the ship put under sail.

When 75 miles off Cape Spartel the Airship "Hindenberg" approached from the southward to within about 2 miles and asked our position. She then headed off towards the Strait. This was the fourth time during the cruise that the "Hindenberg" has been seen from the ship. When first putting the ship under sail we could not quite make our course and had to sail full and by, but before midnight, the wind hauled around so that we could make the course good.

Studies were held on Wednesday, but drills were not practical nor were studies or drills practical on Thursday. The ship was very active and considerable spray was being shipped. On those two days we made 223 and 224 miles respectively under sail.

Sail was taken in and the engines coupled up a few miles off Funchal, and the ship lay to off the port until morning, coming to anchor at 9.11 A.M. The Portuguese Training Ship "Sagres" lay at anchor in the port.

The cruise to date has been made as follows: For the voyage, under steam 3364 miles; steam and sail 2302 miles; sail alone 1395 miles. From Gibraltar, under steam 71 miles; steam and sail 8 miles; sail alone 553 miles.

Funchal, Madeira

At Funchal, pulling boats were used entirely; the motor launch was not hoisted out. Boat crews this summer were the best for four years. Swimming was had off the ship twice and occasionally three times daily. Boats were exercised under sail on several days. A mountain motor trip for each watch was arranged for, 18 cadets going on each occasion. It was found that the Reverend Smart of the Seamen's Rest, who has heretofore on occasion of our visits to Funchal entertained the cadets, died last May, and that the Seamen's Rest was closed.

On August 4, the Polish Naval Training Ship "Sikra", and auxiliary (Diesel) three masted schooner, arrived in port.

On August 7, a number of cadets from the "Sikra" visited the ship. The "Sikra" is a small vessel with a total crew of 56 and only 20 cadets. On this day boat races were held between the starboard and port watches, the first and second classes, and between the deck and engineer forces. The winners were respectively the starboard watch, the second class, and the engineer force.

The weather during the stay at Funchal was excellent. Noonday temperatures were as follows: July 31, 74; August 1, 70; 2nd, 73; 3rd, 74; 4th, 75; 5th, 74; 6th, 74; 7th, 74; 8th, 73.

The "Nantucket" got under way at 11.52 A.M. on August 8 under two boilers. When anchor was aweigh the "homewardbound pennant" was broken. The "Sikra" signalled "Pleasant Voyage." At 6.30 P.M., the wind came fair and the ship was put under sail. The ship continued under sail until noon of the 20th when, the wind falling light, the engine was coupled up. The Trades were particularly strong and good day's runs were made; the best being 190 miles from noon the 9th to noon the 10th. The average speed under sail was 156.7 for 11.8 days. The weather was generally cloudy until towards the end of the sailing period when ordinary trade wind weather prevailed and as the Trades were dropped light squalls were encountered. Very high barometer prevailed throughout the passage. No vessel was sighted until the early morning of the 21st.

The cruise was without incident. It was quite hot from the time the Trades were lost until well into the Gulf Stream. On the 27th northeast winds of nearly gale strength were encountered. As the fore and aft sails could be carried our progress was materially assisted, and by evening it was found that we would arrive at Newport Friday night instead of Saturday morning as reported by radio. The third boiler, which had been put on auxiliaries on the 23rd due to difficult steaming conditions, was now connected up on the main line in order to arrive at Newport before dark.

Drills and studies were conducted according to schedule. No drills were held during examination week. Lifeboat drills were held as follows: August 21 Starboard Watch: boat in water 45 seconds; buoy picked up 5 minutes 40 seconds; boat hoisted 13 minutes 20 seconds. Port Watch: boat in water 57 seconds; buoy picked up 4 minutes 4 seconds; boat hoisted 10 minutes 10 seconds. The "Nantucket" arrived at Brenton Reef lightship at 4 P.M., August 29, and picked up the pilot. The ship arrived at Providence and berthed at the pier of the Dutton Lumber Company at 7.14 P.M.

The cruise to date has been made as follows: For the voyage, under steam 3,888 miles; under steam and sail 3,257 miles; under sail alone 3,246 miles. From Madeira: under steam 524 miles; under steam and sail 955 miles; under sail alone 1,851 miles.

Providence, Rhode Island

The visit to Providence was evidently much appreciated locally. It was announced that the ship would be open to visitors from 1.30 P.M. to 4.30 P.M. daily. During those hours the gun deck was open to visitors as well as the main deck. There were so many people down to see the ship in the evenings that the main deck was opened to visitors until 8.30 P.M. It was estimated that upwards of 2000 people came on board on Sunday afternoon. Many cars were on the dock when the "Nantucket" arrived, and many parents of cadets visited during the stay at Providence.

New Bedford

The ship arrived at New Bedford and anchored in the inner harbor at 4.37 P.M. on September 2. Visitors were received on board afternoons from 1.30 P.M. to 4.30 P.M. On Sunday visiting had to be stopped on account of moving the ship. Regular liberty was granted by watches and the port watch was granted week-end liberty as the starboard had been at Providence.

The "Nantucket" got underway at 9.57 A.M. on September 8 under three boilers and anchored at Cataumet at 12.18 M, on the same day.

The ship left Cataumet on September 14 and arrived in Boston the same day, at 4.16 P.M.

Commissioners' Cruise Inspections

At the beginning of the cruise, Commissioner Walter K. Queen, representing the Commissioners, made the trip from Boston to Provincetown. A rough sea and unfavorable conditions existed. The cadets were exercised at the various drills, including sail drill, and did creditable work. The ship was in excellent condition and in every respect ready for sea.

The three Commissioners, accompanied by the Secretary, boarded the "Nantucket" on Sunday afternoon, September 13, at Cataumet, for the purpose of sailing with the ship the next day to Boston on an inspection trip. The ship left Cataumet at about 6 A.M. on Monday, September 14, and arrived in Boston at 4.16 P.M. the same day. Having a good opportunity to observe their work, the Commissioners were pleased to note the fine spirit and capable manner in which the cadets handled their work both on deck and in the engineering department. The improvement in the work of the cadets since the spring inspection was very marked. All departments of the ship were found to be in good condition, and the health of the cadets excellent. During the 24 hours of the inspection the cadets were exercised at abandon ship drill, collision drill, and fire drill. Locker and hammock inspections were held.

Cruise Mileage

	Days	Hours	Minutes	Miles
Steam	25	22	18	4,014
Sail	20	18	12	3,246
Steam and sail	19	14	10	3,274
Total at sea	66	06	40	10,534
In port	61	18	37	
Total for voyage	128	01	17	

Coal Report

The following is a report of coal consumption for the cruise of 1936:

On hand and received	725 tons
Expended	686 tons
Remaining, September 15	39 tons

Items

Moving ship	406 tons
Auxiliaries and lighting	214 tons
Distilling	61 tons
Galleys	5 tons
Total expended	686 tons

The School Record

During the year there have been 172 students on the rolls of the school. They came from 84 cities and towns of the Commonwealth as follows:

Acton	1	Milton	3
Andover	1	Needham	1
Arlington	3	Neponset	1
Athol	2	New Bedford	9
Attleboro	3	Newton	2
Auburn	1	North Abington	1
Avon	1	North Andover	2
Bedford	1	North Westport	1
Belmont	1	North Wilbraham	1
Boston	14	Norwood	3
Braintree	3	Orange	1
Bridgewater	3	Peabody	1
Brockton	1	Pepperell	1
Brookline	1	Pittsfield	1
Cambridge	3	Pocasset	1
Dalton	1	Quincy	6
Dedham	1	Reading	1
Easthampton	3	Rochdale	1
Edgartown	1	Rockport	1
Everett	1	Rowley	1
Fall River	1	Salem	2
Falmouth	1	Saugus	1
Fitchburg	1	Segreganset	1
Florence	1	Sharon	1
Gloucester	4	Somerville	3
Greenfield	1	Springfield	6
Haverhill	4	Stoneham	1
Hingham	2	Swansea	1
Housatonic	1	Wakefield	3
Hudson	1	Waltham	1
Lawrence	2	Watertown	2
Lexington	1	Waverly	1
Lowell	1	Wellesley	2
Lunenburg	1	Wenham	1
Lynn	2	Westfield	2
Malden	5	Weymouth	1
Manomet	1	Whitinsville	1
Marblehead	1	Winchendon	1
Medford	3	Winchester	1
Melrose	4	Winthrop	3
Methuen	3	Wollaston	3
Middleborough	2	Worcester	6
		Total	172

The previous education of these students was as follows: High schools, 155; technical schools, 7; academies, 6; colleges, 2; preparatory schools, 2. The average age of the cadets at entrance was 18 years, 6 months. The number of cadets enrolled in the school at present is 119.

Graduation Exercises

The eighty-third graduation exercises were held on board the "Nantucket" at the Navy Yard, Charlestown, on Tuesday, March 31, 1936, at 11 A.M. The program was as follows:

Invocation: Rev. Arthur M. Ellis, Chaplain of the Massachusetts Senate.

Presiding Officer: Mr. Clarence E. Perkins, Chairman of the Commissioners of the School.

Address: Rear Admiral Walter R. Gherardi, U.S.N., Commandant of the First Naval District.

Prize awarded by the Boston Marine Society to the graduate excelling in those qualities making for the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership. Presented by Capt. Herman T. Parker, Class of 1902, Port Captain, Eastern Steamship Lines, to Wilber S. Doe, of Somerville.

Prizes awarded by Mr. Arthur M. Wiggin of Brookline to the graduates in the Seamanship Class and in the Engineering Class making the greatest improvement in all around work during the past year. Presented by Mr. Wiggin to Ernest W. Bemis of West Bridgewater, Seamanship Class; Timothy E. Donahue, Jr. of Haverhill, Engineer Class.

Prize award by The Society of The War of 1812 to the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States. Presented by Col. Frederic Gilbert Bauer, President of the Society, to Robert H. Jacobs of Worcester.

Prize awarded by the Massachusetts State Society, United States Daughters of 1812, to the graduate in the engineering division standing highest in engineering and electricity. Presented by Mrs. Henry Anthony Fiske, President, to Robert H. Jacobs of Worcester.

Prize awarded by Mr. William H. Dimick, Secretary of the Board, to the graduate receiving the highest average for the course. Presented by Mr. Dimick to Andrew P. L. Nielsen of Jamaica Plain.

Presentation of Bibles given by the Massachusetts Bible Society: Mr. Ellis.

Presentation of Diplomas: Mr. James G. Reardon, Commissioner of Education, Massachusetts Department of Education.

The eighty-fourth graduation exercises were held on board the "Nantucket" at the Navy Yard, Charlestown, on Tuesday, September 22, 1936, at 11 A.M.

Prayer: Capt. Thomas B. Thompson, (Ch.C.), U.S.N., Navy Yard, Charlestown.

Presiding Officer: Mr. Clarence E. Perkins, Chairman of the Commissioners of the School.

Address: Mr. Charles E. Ware, Member of the Boston Port Authority.

Address: Rear Admiral Walter R. Gherardi, U.S.N., Commandant of the First Naval District.

Prize awarded by the late Irving L. Wood to the graduate having the highest marks in Seamanship and Navigation for the year. Presented by Mr. Theodore L. Storer, Commissioner of the School, to Edward F. Serafin of Worcester.

Prize awarded by the Boston Marine Society to the graduate excelling in those qualities making for the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership. Presented by Capt. Harold L. Colbeth, Treasurer, Boston Marine Society, to Robert A. Mushet, Jr. of Arlington.

Prizes awarded by Mr. Arthur M. Wiggin of Brookline to the graduates in the Seamanship Class and in the Engineering Class making the greatest improvement in all around work during the past year. Presented by Mr. Wiggin to Harold T. Schmidt, of Athol, Seamanship Class.; Richard B. Collins, of Milton, Engineering Class.

Prize awarded by The Society of the War of 1812 to the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States. Presented by Lieut. Kingman P. Cass, to Richard B. Collins of Milton.

Prize awarded by the Massachusetts State Society, United States Daughters of 1812, to the graduate in the engineering division standing highest in engineering and electricity. Presented by Mrs. Henry Anthony Fiske, President, to Howard B. Jackson of Melrose.

Prize awarded by Mr. William H. Dimick, Secretary of the Board, to the graduate receiving the highest final average in the deck division. Presented by Mr. Dimick to Carl C. Ellis of Winchester.

Presentation of Bibles given by the Massachusetts Bible Society: Chaplain Thompson.

Presentation of Diplomas: Mr. Patrick T. Sullivan, Deputy Commissioner of Education, Massachusetts Department of Education.

Lectures: Winter Term, 1935-36

1935

Nov. 1. American Express Company. Subject: "Tropic Splendor."
Nov. 8. Lieut. Comdr. Walter K. Queen. Subject: "A Voyage to Antarctica."
Nov. 15. Capt. William Winberg, Colonial Beacon Oil Company. Subject: "Marine Lubrication."
Nov. 22. Capt. William W. Storey. Subject: "United States Steamboat Inspection Service Cases."
Dec. 6. Plymouth Cordage Company. Subject: "The Story of Rope."
Dec. 13. Albert T. Gould. Subject: "Admiralty Law."

1936

Jan. 3. Capt. Clarence A. Abele, U.S.N., Superintendent of the School. Subject: "The Naval Overseas Transportation Service."
Jan. 10. Schrafft Company. Subject: "Down Through the Years."
Jan. 17. Fred J. Wallace. Subject: "Diving."
Jan. 24. Capt. George E. Eaton, Superintendent, 2nd Lighthouse District. Subject: "Radio Aids to Navigation."
Jan. 31. Mr. William Renz. Subject: "Ship Classification."
Feb. 7. Mr. John Stuart. Subject: "Cases met with by the Boiler Inspector."
Feb. 14. Mr. Robert M. Gray, Executive Officer of the School. Subject: "Ships Painting."
Mar. 6. Prof. Harlan T. Stetson. Subject: "Astronomy."

Officers and Instructors

Clarence A. Abele, Captain, U.S.N. (retired), Superintendent.
Robert M. Gray, Lieutenant, U.S.N.R. (graduate M.N.S.), Executive Officer.
John W. Thompson, (graduate M.N.S.), Navigator.
Richard T. Rounds, (graduate M.N.S.), Watch Officer.
Louis A. Woodland, (graduate M.N.S.), Watch Officer.
Ervin L. Kelley, Lieutenant, U.S.N.R. (graduate M.N.S.), Chief Marine Engineer.
Norman L. Queen, Lieutenant, j.g., U.S.N.R. (graduate M.N.S.), Assistant Marine Engineer.
John E. Wright, Instructor in Mathematics.
Francis J. Cameron, Instructor in Mechanical Drawing.
Arnold Settlage, M.D., Surgeon, Summer Term.
Robert S. Palmer, M.D., Surgeon, Winter Term.
Charles Parker, Paymaster.

Cadet Officers of the Massachusetts Nautical School

Summer Term

Navigation

Robert A. Mushet, Jr. . . . . *Senior Cadet Officer*
D. Webster Brown, Jr. . . . . *Junior Cadet Officer*

Engineering

Richard B. Collins . . . . . *Senior Cadet Engineer Officer*
Howard B. Jackson . . . . . *Junior Cadet Engineer Officer*

Winter Term, 1936-37

Navigation

Francis A. Litchfield . . . . . *Senior Cadet Officer*
James A. Mulcahey, Jr. . . . . *Junior Cadet Officer*

Engineering

Leon A. Uzdavinis . . . . . *Senior Cadet Engineer Officer*
Arthur G. Ellis, Jr. . . . . *Junior Cadet Engineer Officer*

Cadets Admitted, Graduated, and Honorably Discharged, from 1893 to 1936, Inclusive

	Admitted	Graduated			Honorably discharged	Withdrawn, dismissed, dropped	Number connected with the school
		Seamanship Class	Engineer Class	Totals			
1893	141	—	—	—	29	24	138
1894	63	—	—	—	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	138
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
1929	71	23	29	52	12	7	189
1930	62	33	19	52	8	3	180
1931	74	38	19	57	6	9	191
1932	50	23	22	45	2	3	169
1933	65	40	30	70	5	1	184
1934	55	20	20	40	4	1	163
1935	68	40	22	62	7	2	186
1936	58	26	19	45	4	4	172
Total	3112	935	810	1745	748	500	

Membership of the School

Graduating Class, March, 1936

Seamanship Division

*Nielsen, Andrew P. L.	Jamaica Plain
*Swimm, Charles H.	Winthrop
Doe, Wilber S.	Somerville
Corriveau, Martial P.	Salem
Bemis, Ernest W.	W. Bridgewater
Gotovich, Edward G.	Norwood
Ludy, Ralph W.	E. Braintree
Call, Edwin F.	Lowell
Ramey, James L.	Hudson
Gallagher, John H.	Lawrence
Staples, Stanley M.	Haverhill
Clark, Edward A.	Malden
Sholes, Harold L.	Rowley

Engineering Division

*Jacobs, Robert H.	Worcester
*Novak, Edward	Easthampton
Burgo, Daniel F.	New Bedford
*Brown, Richard C.	Attleboro
Kudlay, Anthony	Easthampton
Milner, Gordon B.	Rochdale
Donahue, Timothy E., Jr.	Haverhill
Forsythe, Chester, Jr.	Quincy
Richmond, Frank R.	Springfield

Graduating Class, September, 1936

Seamanship Division

*Ellis, Carl C.	Winchester
Mushet, Robert A., Jr.	Arlington
Serafin, Edward F.	Worcester
Kelley, Arthur S.	Avon
Bryce, Forbes O.	Montague
Shockley, Wilson I.	Bridgewater
Brown, D. Webster, Jr.	New Bedford
Davies, W. Kenneth	Florence
Anderson, John W.	Wellesley Hills
Thompson, Owen E.	Attleboro
Wickham, Joseph F.	Winthrop
Schmidt, Harold T.	Athol
Dietrich, George S.	Dorchester

Engineering Division

*Jackson, Howard B.	Melrose
Collins, Richard B.	Milton
Potter, Andrew B., Jr.	Auburndale
*Sullivan, John L.	N. Wilbraham
Hamilton, Edwin A.	E. Dedham
Dawson, James J.	Pittsfield
Hemmerly, William H., Jr.	Manomet
Barlow, Robert S.	Worcester
Dayton, Charles J.	Wakefield
Allen, Thorwald C.	N. Andover

(*Received 85 per cent. or over, of the academic multiple and entitled to wear gold star on coat collar.)

Class to Graduate, March, 1937

Seamanship Division

*Mulcahey, James A., Jr.	Westfield
*Hayden, Willis M., Jr.	Quincy
Litchfield, Francis A.	Malden
*Matheson, David W.	Quincy
*Reed, Roy B., Jr.	Lynn
Larsen, Peter W.	Cambridge
Beatteay, Walter E.	Lexington
*Perkins, William W.	Hingham
*Littlefield, Nathan W.	Sharon
Fielden, Robert W.	Andover
Guild, George S.	E. Milton
Dexter, Edwin B.	Roslindale
Hathaway, Louis S.	Middleboro
*Rowlands, Walter, 2nd	Needham
Hiorth, Anders S.	Wollaston
Kuta, Benjamin	Easthampton
Costello, David L.	Milton
Larsen, Karl J.	Somerville
Iliffe, George E.	Cambridge
Gallison, Raymond M.	Haverhill

Engineering Division

*Zylinsky, Stanley B.	Methuen
Ellis, Arthur G., Jr.	Methuen
Greeley, Gerald G.	Dorchester
*Richmond, Edward T.	Springfield
Uzdavinis, Leon A.	Haverhill
Carlson, Gustav B.	Newton Center
Knight, Ralph H.	Gloucester
Rolfe, Thomas W.	Stoneham
Hurwitch, Martin B.	Mattapan
Korman, Fenton F., Jr.	Springfield
Crowell, Cutler C.	Wellesley
Paul, Charles	Lawrence
Leary, Charles J.	Fall River

Class to Graduate, September, 1937

Seamanship Division

Edmands, John R.	Cambridge
*Banner, Roger H.	Segreganset
*Clayton, John	New Bedford
Fraser, Robert G.	Wollaston
*Herlich, Joseph	Lynn
Perry, Taber B.	Pocasset
Hathaway, Holland M.	Malden
*Rose, John P., Jr.	New Bedford
Bowden, Frederick W.	New Bedford
Moore, James F.	Stoneham
Wayman, Charles S., Jr.	Falmouth
Nath, Carl J.	South Boston
Crown, Roger A.	Wollaston
Rand, Melvin A.	Orange
Cain, John R.	Quincy
Kennedy, William T.	Middleboro
Greany, Thomas H., Jr.	S. Swansea

(*Received 85 per cent. or over, of the academic multiple and entitled to wear gold star on coat collar.)

Engineering Division

Elder, John A.	Waverly
*Gietek, John S.	Westfield
O'Neil, Richard V.	Brookline
Kuechler, Clifton S.	New Bedford
Larsen, Lawrence N.	Somerville
Pitman, Paul W.	Saugus
Dow, Chester, A., Jr.	Malden
Arrigo, Philip M., Jr.	East Boston
Donnelly, James A.	South Boston
Estey, Roland H., Jr.	Reading
Hallett, Robert W.	Braintree

CLASS TO GRADUATE, MARCH, 1938

Seamanship Division

Duffee, Paul F.	Neponset
Gray, Floyd E.	Rockport
Howe, Norman, Jr.	Dalton
Berwick, Thorndike J.	Methuen
Smith, Kenneth G.	Springfield
Austin, Milton L.	Attleboro
Kaufman, Leon F.	Roxbury
Edwards, David L.	Brighton
Garland, Nelson F.	Bedford
Arnold, William B., 2nd	No. Abington
Murphy, Francis J.	Medford
Pierszalowski, Raymond V.	Athol
Lingham, Theodore T.	So. Braintree
Hallbourg, Walter T.	E. Pepperell
Achimore, A. Paul	Medford
Cook, George C.	Quincy
Slayton, Wendell D.	Waltham
Moore, Albert F., Jr.	Melrose
Bienia, John P.	New Bedford
Veeder, Richard W.	Gloucester
Ford, Francis J., Jr.	Worcester
Johnson, C. H. Chester	Norwood
Johnson, Johannes A.	Norwood
Donohue, Leo F.	Malden
Grime, Frank, Jr.	New Bedford
Cass, Herman J., Jr.	No. Andover
Cookson, William	West Newton
Ormsby, Albert R.	Worcester
Full, William A.	Marblehead
McLean, Phillips B.	Bridgewater
Deacon, Archie K.	Gloucester
Neill, John R. J.	Springfield

CLASS TO GRADUATE, SEPTEMBER, 1938

(Alphabetically arranged)

Albatys, Edward J.	Housatonic
Bent, Wendell E.	So. Peabody
Borden, Edwin S.	No. Westport
Ceppi, William J.	Dorchester
Cooper, Ralph H.	Watertown
DeMontier, Leon R.	Melrose
DuMoulin, John L.	Dorchester

(*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar.)

Gilman, Roger B.	New Bedford
Howe E. Hibbard	Quincy
Hutchinson, Norman R.	Salem
Lancaster, John H.	Brockton
Luken, Roy E., Jr.	Wakefield
Macomber, Robert H.	Boston
Marzullo, John S.	Everett
McKenna, John P.	Dorchester
McLeod, Douglas S.	Springfield
Millar, Harold F.	Wakefield
Morris, Van H.	Melrose
Mortimer, Ernest W., Jr.	Edgartown
Nolan, Joseph W.	Arlington
Scott, Ian R.	Medford
Slavin, Philip M.	Winchendon
Smith, Wilton G.	So. Weymouth
Studley, Liba L.	Hingham Center
Tobey, Robert D.	Gloucester
Trowt, George B.	Wenham

Appropriations

The appropriations for the school for the fiscal year 1936, from December 1, 1935, to November 30, 1936, are accounted for as follows:

Expenses of Schoolship	Appropriations	Expenditures
Personal Services	$45,200.00	$45,312.96
Travel, transportation and office expenses	1,139.43	1,148.18
Food	23,855.24	24,200.40
Furnishings and household supplies	1,070.89	1,201.41
Medical and general care	1,496.77	1,183.12
Heat, light, power, etc.	8,536.02	7,803.36
Repairs	2,485.15	2,476.25
Miscellaneous	2,518.98	2,549.51
	$86,302.48	$85,875.19
Unexpended balance		427.29
	$86,302.48	$86,302.48
Expenses of Commission		
Office supplies and equipment	$250.00	$194.76
Traveling and other services and expenses	1,900.00	1,834.86
	$2,150.00	$2,029.62
Unexpended balance		120.38
	$2,150.00	$2,150.00
Personal Services		
Commissioner's office	$4,859.00	$4,859.00
Income		
Received from Navy Department	$25,000.00	
Received from tuition and other fees	12,269.40	
	$37,269.40	

Respectfully submitted,

CLARENCE E. PERKINS, *Chairman,*
THEODORE L. STORER,
WALTER K. QUEEN,
Commissioners.

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THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF EDUCATION

ANNUAL REPORT

OF

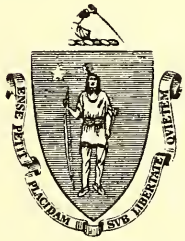
THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1937



MASSACHUSETTS NAUTICAL SCHOOL
100 NASHUA STREET, BOSTON

PUBLICATION OF THE DOCUMENT APPROVED BY THE COMMISSION OF ADMINISTRATION AND FINANCE
800. 3-'38. Order 3257.

THE COMMONWEALTH OF MASSACHUSETTS

DEPARTMENT OF EDUCATION

JAMES G. REARDON, *Commissioner of Education*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL

100 NASHUA STREET, BOSTON

CLARENCE E. PERKINS, *Chairman*
THEODORE L. STORER
WALTER K. QUEEN

WILLIAM H. DIMICK, *Secretary*

REPORT OF THE COMMISSIONERS

To the Commissioner of Education:

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1937, the forty-sixth annual report.

SCHOOL CALENDAR, 1937

Spring entrance examinations	April 1, 2, 3
Spring graduation	April 6
Winter term ended	April 6
New class reported	April 21
Summer term commenced	May 4
"Nantucket" sailed from Boston	May 15
"Nantucket" arrived at Boston	September 21
Autumn entrance examinations	September 23, 24, 25
Autumn graduation	September 28
Summer term ended	September 28
New class reported	October 14
Winter term commenced	October 25

A MARITIME STATE

In a monograph issued by the marine committee of the Tercentenary Commission, in 1930, entitled "Massachusetts on the Sea," it was stated that Massachusetts is "the premier maritime Commonwealth of the United States."

The supremacy of Massachusetts on the sea is due in large measure to the fact that the early colonists were descended from a seafaring race. The men who landed at Plymouth and at other points along the Massachusetts coast had the salt of the sea in their veins, and this seafaring instinct has been handed down from generation to generation. This sympathetic interest in the sea and ships is not limited to any section of the State, but is found from Cape Cod to the Berkshire Hills.

The geographical position of Massachusetts, with its 750 miles of coast line, has had its effect upon the habits of the people. A young man born and brought up within sight of the ocean naturally turns to the sea. Mr. Henry C. Kittredge in his volume "Shipmasters of Cape Cod," writes as follows:—"No man can live month after month, and year after year, with the sea at his very door, its surf

pounding in his ears in winter, and its sunny surface dancing before his eyes in summer, without at last accepting its invitation,—or taking up its challenge."

The building and operation of ships have been most important industries of the State. From the time the first vessel was built in Medford in 1631, to the outbreak of the Civil War, sea going vessels were being constructed at various points along the coast, especially at Newburyport, Gloucester, Salem, Medford, Boston, Quincy and New Bedford. It is recorded that forty-five years after the first vessel was built in Massachusetts, citizens of the State owned 430 ships ranging in size from 30 to 250 tons. The shipping industry continues to be one of the major industries of the Commonwealth.

The work of the Massachusetts Nautical School during the past forty years in training and educating young men to be competent deck and engineer officers has done much to promote and maintain the maritime interests of the state and nation.

Prepares For Sea Service

The Massachusetts Nautical School, established in 1891, prepares young men between the ages of seventeen and twenty years for service as deck and engineer officers in the American merchant marine. The work of the school is conducted on board the Schoolship "Nantucket" berthed during the winter months at the Navy Yard, Charlestown. The summer months are occupied with a European cruise.

The course of study lasts two years; in the first year of the course instruction is given in both seamanship and marine engineering. At the close of the first year, the class is divided into Seamanship and Engineer branches according to the aptitude of the cadet for one branch or the other.

Applicants must be residents of Massachusetts and parents must be residents of the State and citizens of the country. Admission to the school is by competitive examination. Entrance examinations are held twice a year, usually the latter part of March and the latter part of September. A deposit of $300 is required upon entering the school, and an additional deposit of $150 at the beginning of the second year of the course. Fifty dollars of the amount deposited is returned to the cadet upon graduation.

Seamanship graduates are eligible for examination for a third officer's certificate, and engineer graduates are eligible for a third assistant engineer's certificate. The graduates have had little difficulty in obtaining employment on board American ships.

The Work of the Year

Upon completion of each summer cruise, the Schoolship "Nantucket" is berthed at the Navy Yard, Charlestown, and preparations are made for the winter term, including the construction of a house over the spar deck transforming the ship into a combined schoolhouse and ship. Classes are held on board the ship and in a building at the Yard.

Before leaving on the annual cruise, the "Nantucket" was thoroughly overhauled by the Navy Department at an expense of $15,823. A new radio direction finder was installed.

The Cruise

The ship made the regular practise cruise in the north-Atlantic and European waters visiting the ports of Gloucester, Washington, Norfolk, Ponta Delgada, Southampton, Amsterdam, Rouen, Funchal, Bermuda, New Bedford, Fall River and Mattapoisett. Gibraltar was omitted from the itinerary on account of the war in Spain. The total mileage was 10,424. The ship proceeding under sail alone whenever possible, sailed 2200 miles, or about one-fifth of the mileage in this manner. Lifeboat drills were held on May 21, 22, June 4, 7, 8, 11, 14, 17, 24, July 7, 14, 26, 27, 29, 30, and on August 17 and 18. An interesting feature of the cruise was the opportunity given the cadets to visit the Exposition at Paris.

Amendment to Seaman's Act

Early in the year, it was learned that Section 13 of the Amendment to the Seaman's Act, approved June 25, 1936, was interpreted by the Bureau of Marine Inspection and Navigation to require the graduates of the State nautical schools to have twelve months service at sea after graduation, before being rated as able seaman. In order to remedy this injustice to the State Nautical School graduates, the following bill was introduced in the Senate by Senator David I. Walsh on March 11, at the suggestion of the Commissioners:

> *"To provide that graduates of approved school ships may be rated as able seamen upon graduation*:
> Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section 13 of the Act entitled 'An Act to promote the welfare of American seamen in the merchant marine of the United States; to abolish arrest and imprisonment as a penalty for desertion and to secure the abrogation of treaty provisions in relation thereto; and to promote safety at sea,' approved March 4, 1915, as amended, is amended by striking out 'after twelve months' service at sea after graduation' and inserting in lieu thereof 'upon graduation in good standing from said school ships.' "

The bill was passed by Congress, and approved by the President on May 22.

The citizens of the Commonwealth, and especially those who are interested in the work of the Massachusetts Nautical School and the welfare of its graduates, are indebted to Senator Walsh and Hon. John W. McCormack for their prompt and effective work in securing the passage of this remedial legislation, and the Commissioners desire to express their earnest appreciation of their hearty interest and cooperation at all times.

Miscellaneous Items

The number of withdrawals during the year was the smallest in the history of the school. The one cadet who left the school was withdrawn for the purpose of taking a course in Naval Architecture in the Webb Institute of New York.

Since the school was established, many graduates have performed noteworthy work in saving life or property at sea. On November 13, 1937, Graduate Lloyd MacLean of Fall River, third officer on board the tank steamer "Swiftsure," had a part in the rescue of six greatly exhausted sailors adrift in an open boat. The sailors were from the Greek freighter "Chandris" which foundered off Diamond Shoals Lightship during a violent storm. Graduate MacLean was in charge of the bridge at the time of the rescue.

The thanks of the Commissioners are extended to Mr. N. Sivertsen, a former instructor in the school, for the generous gift of a very fine model of the Schoolship "Nantucket," and a glass case. Mr. Sivertsen, who made the model, was retired from the State employ three years ago upon reaching the retirement age of seventy years. Made on a scale of 1/8 inch to a foot, the model is two feet and a half over all.

The Division of University Extension, Massachusetts Department of Education, has recently added to its schedule a course preparing applicants for the Massachusetts Nautical School entrance examinations.

Graduates of the School in 1937

The following is a list of the sixty graduates of 1937, the names of their home towns, and their first employment:

Name	Residence	Vessel	Service
Philip M. Arrigo, Jr.	East Boston	At sea	United Fruit Co.
Roger H. Banner	Segreganset	S. S. West Selene	American Republic Lines
Walter E. Beatteay	Lexington	S. S. Steel Navigator	Isthmian Line
Frederick W. Bowden	New Bedford	S. S. Aruba	Standard Oil Co.
John R. Cain	Quincy	At sea	Isthmian Line
Gustav B. Carlson	Newton	S. S. Chincha	Grace Line
John Clayton	New Bedford	At sea	Standard Oil Co.
David L. Costello	Milton	S. S. Gen. Sherman	Isthmian Line
Cutler C. Crowell	Wellesley	At sea	
Edwin B. Dexter	Roslindale		
James A. Donnelly	South Boston		
Chester A. Dow, Jr.	Malden	S. S. West Selene	Amerian Republics Line
John R. Edmands	Cambridge	At sea	American Hawaiian Line
John A. Elder	Waverly	S. S. West Selene	American Republics Line
Arthur G. Ellis, Jr.	Methuen	S. S. Scanpenn	Scantic Line
Roland H. Estey, Jr.	Reading	T. E. S. Platano	United Fruit Co.
Robert W. Fielden	Andover	S. S. Steel Inventor	Isthmian Line
Robert G. Fraser	Wollaston	S. S. Black Hawk	Black Diamond Line
Raymond M. Gallison	Haverhill	At sea	Standard Oil Co. of N.Y.
John S. Gietek	Westfield	S. S. Hagood	Cities Service Co.
Thomas H. Greany, Jr.	So. Swansea	At sea	Lykes Line
Gerald G. Greeley	Dorchester	S. S. Ulua	United Fruit Co.
George S. Guild	E. Milton	S. S. Memphis City	Isthmian Line
Robert W. Hallett	Braintree		
Holland M. Hathaway	Malden	S. S. Winding Gulf	Mystic S. S. Line
Louis S. Hathaway	Middleboro	S. S. City of Rayville	American Pioneer Line
Willis M. Hayden, Jr.	Quincy	S. S. Steel Age	Isthmian Line
Joseph Herlich	Lynn	S. S. Steelmaker	Isthmian Line
Anders S. Hiorth	Wollaston	S. S. Steel Age	Isthmian Line
Martin B. Hurwitch	Mattapan	S. S. Chincha	Grace Line
George E. Iliffe	Cambridge	At sea	Matson Line
William T. Kennedy	Middleboro	S. S. Wallace A. Pratt	Standard Oil Co.
Ralph H. Knight	Gloucester	S. S. Sartartia	American Republics Co.
Fenton F. Korman, Jr.	Springfield	M. S. Ohio	Cities Service Co.
Clifton S. Kuechler	New Bedford	S. S. Algonquin	Standard Oil Co.
Benjamin Kuta	Easthampton	S. S. Memphis City	Isthmian Line
Karl J. Larsen	Somerville	At sea	Standard Oil Co.
Lawrence N. Larsen	Somerville		
Peter W. Larsen	Cambridge	S. S. Limon	United Fruit Co.
Charles J. Leary	Fall River		
Francis A. Litchfield	Malden	At sea	Baltimore Mail Line
N. Whitman Littlefield	Sharon	S. S. City of Rayville	American Pioneer Line
David W. Matheson	Quincy	S. S. Santa Luia	Grace Line
James F. Moore	Stoneham	S. S. Black Hawk	Black Diamond Line
James A. Mulcahey, Jr.	Westfield	Yacht Seyon	Private yacht
Carl J. Nath	South Boston	S. S. President Harding	United States Lines
Richard V. O'Neil	Brookline	S. S. Scanmail	Moore & McCormack Co.
Charles P. Paul	Lawrence	S. S. Tiger	Standard Oil Co. of N.Y.
William W. Perkins	Hingham	S. S. Satartia	American Republics Line
Taber B. Perry	Pocasset	At sea	Isthmian Line
Paul W. Pitman	Saugus	At sea	United Fruit Co.
Melvin A. Rand	Orange	S. S. Wallace A. Pratt	Standard Oil Co.
Roy B. Reed, Jr.	Lynn	S. S. Coldbrook	American Republics Line
Edward T. Richmond	Springfield	S. S. Vincent	American France Line
Thomas W. Rolfe	Lunenburg	S. S. Boston	Eastern Steamship Lines
John P. Rose, Jr.	New Bedford	S. S. Wallace A. Pratt	Standard Oil Co.
Walter Rowlands, 2nd	Needham		
Leon A. Uzdavinis	Haverhill	S. S. Steel Trader	Isthmian Line
Charles S. Wayman, Jr.	Falmouth	Atlantis	Oceanographic Institute
Stanley B. Zylinsky	Methuen	S. S. Sartartia	American Republics Line

Detailed Report on the Practice Cruise

The "Nantucket" sailed from the Navy Yard, Boston, at 3 P.M. on May 15, for Gloucester. Many relatives and friends of cadets were present to see the ship sail. Upon clearing North Channel, the ship was swung for compass deviation. After swinging ship, the "Nantucket" proceeded at reduced speed as far as Thatcher's Island, and then steamed back and forth between that point and Newcomb's Ledge, at about three miles off shore, until 5 A.M. May 16, when the course was set for Gloucester Harbor. The ship was brought to anchor in Western Harbor at 6.30 A.M. The new direction finder proved very satisfactory; distant stations were heard and showed a clear maximum.

U. S. S. "Nantucket"—Itinerary 1937

Left—	Arrived at—
Boston, May 15	Gloucester, May 16
Gloucester, May 20	Washington, May 25
Washington, May 31	Norfolk, June 2
Norfolk, June 4	Ponta Delgada, Azores, June 18
Ponta Delgada, June 23	Southampton, England, July 2
Southampton, July 7	Amsterdam, Holland, July 9
Amsterdam, July 14	Rouen, France, July 16
Rouen, July 22	Funchal, Madeira, August 1
Funchal, August 14	Bermuda, August 31
Bermuda, September 3	New Bedford, September 7
New Bedford, September 10	Fall River, September 10
Fall River, September 13	Mattapoisett, September 13
Mattapoisett, September 20	Boston, September 21

Gloucester

The stay of the "Nantucket" at Gloucester was utilized to good advantage with sail drills and general drills. Pulling boats were used entirely except on the nineteenth when on account of rain, the motor launch was used. Boats were sent out daily under sail as weather permitted. Liberty was granted daily by watches from four to nine P.M. Many visitors came on board the "Nantucket" on Sunday afternoon. A cadet baseball team played the team of the local high school on Tuesday afternoon.

En Route to Washington

The "Nantucket" left Gloucester at 10 A.M. on May 20 for Washington, and at 12.30 P.M. met the U.S.S. "Wandank" four miles east of Boston lightship for calibration of the new direction finder. The radio engineer at the Navy Yard and assistant were taken on board for the work. The work being completed, the "Nantucket" proceeded for Washington. The first year cadets were vaccinated and were administered the first anti-typhoid inoculation. Pollock Rip light vessel was made at 12.25 A.M. on May 21. Vineyard Sound was cleared at 11.03 A.M., and the course was set for the Chesapeake. General drills were held on May 21, and a field day on the 22nd. Man overboard drills were held on both days. Inspection was held on the 22nd, and a church service was conducted by the Executive Officer. Chesapeake Bay was entered at 6 P.M. on the 23rd, and the ship continued up the Bay, entering the Potomac river at 2 A.M. on Monday, anchoring at Mount Vernon at 2.25 P.M. Cadets of the first class were allowed to visit the home of Washington. They were admitted without charge. The "Nantucket" got underway at 6 A.M., May 24, and proceeded to the Navy Yard, Washington. A Yard pilot came on board at the mouth of the Anacostia river, and the ship berthed at 7.45 A.M.

Washington, D. C.

The visit of the "Nantucket" to Washington was very satisfactory. The conduct of the cadets was excellent, and their good conduct, appearance, and bearing were favorably commented upon by many. Regular liberty was granted by watches from 1.30 to 10 P.M. Boat drills under oars and sail drills were each held on two days. Many courtesies were extended to the officers and cadets by the Massachusetts Schoolship Club of Washington, Capt. Howard G. Copeland, U.S.N.R., class of 1906 President. Seamanship cadets were taken through the Hydrographic Office of the Navy Department to witness chart making.

Washington to Norfolk, Virginia

The "Nantucket" sailed at 6 A.M. on May 31, under three boilers, being assisted from the dock by a Yard tug. On passing Mount Vernon, the usual ceremony was observed. May 31 was observed as a holiday. The "Nantucket" anchored for the night off the Wicomico river. The ship got underway at 6 A.M. on June 1 and after swinging for compass deviation, proceeded to the Naval Operating Base, Norfolk, arriving at 1.45 P.M.

Norfolk, Virginia

The "Nantucket" was conveniently berthed in the submarine basin at the Naval Operating Base. The U.S.S. "New York" just returned from the British coronation was berthed across the dock. Boat crews were exercised under oars on the 2nd. The ship was coaled on the 3rd, taking on board 134 long tons.

Norfolk to Ponta Delgada, Azores

The "Nantucket" sailed at 11.30 A.M. on June 4, and cleared Chesapeake lightship at 5.15 P.M. Routine drills and studies were carried out. The generally fine weather prevailing and the fact that vaccinations and anti-typhoid inoculations were completed early in the cruise tended to make this leg of the cruise particularly satisfactory. Church services were held on Sundays by the Executive Officer. Numerous steamers were sighted during the passage. Sailing was had on the 5th, but the wind died down after about six hours. It came favorable again on June 9, and the ship was then under sail for two days. From noon on the 9th to noon on the 10th (23 hours), 176 miles were made good. The wind came from the northeast on the 14th and on the 15th, in order to delay arrival at port, the ship was again put under sail. While sixty-two miles were made in eleven hours, not much distance was made along the course. At daylight on the 17th, the island of Fayal was sighted, and the ship passed to the southward of Pico at a distance of 17 miles. Lifeboat drills were held on June 4, 7, 8, 11, 14 and 17. Cape Ferraria on the west end of San Miguel Island was sighted at 3 A.M. on June 18 and the "Nantucket" anchored in the harbor of Ponta Delgada at 9.10 A.M.

Ponta Delgada, Azores

At Ponta Delgada sail and boat drills were conducted in the mornings and the usual watch liberty was granted in the afternoons. Pulling boats were used entirely. The motor boat was hoisted out one day for training of crew. A cadet basketball team played a local team and won a well contested game by a score of 18 to 16. The ship was coaled on the day of sailing, taking sixty tons of Welsh coal. The ship sailed from Ponta Delgada on June 23 and proceeded on the passage to Southampton.

Ponta Delgada to Southampton, England

Generally good weather was had to the Channel, with little chance for sailing. The wind finally came favorable on the morning of June 28, and at 6.30 A.M., the ship was put under sail and continued until 6 P.M. on July 1, at which time, the ship was eastward of Start Point. Routine drills and studies were held. A lifeboat drill was held on June 24 as follows: boat in water zero minutes, forty seconds; buoy picked up two minutes fifty-five seconds; boat hoisted seven minutes fifty seconds. It was expected to make land fall at Start Point, but it was not sighted due to the low visibility although only ten miles distant. The position of the ship was readily checked with radio direction finder and fathometer. Nab lighthouse was located by radio beacon and made dead ahead, although St. Catherine's Head was neither seen nor heard. The sea pilot was picked up near the Nab, and the dock pilot came on board near the city. The "Nantucket" docked at 12.25 A.M. at the new quay of the port by courtesy of the Southern Railway. The steamship "Manhattan" lay at a quay further up the stream.

Southampton

The courtesy of free tram transportation, access to the public museums, and to the municipal baths, was extended to the cadets. Twenty cadets were given special leave to visit relatives and friends at the request of parents. Two parties of cadets visited London. On July 5, the ship was dressed and holiday routine was observed.

Southampton to Amsterdam, Holland

On the passage to Amsterdam, much traffic was encountered, and particularly when passing through the Strait of Dover. Favorable current was carried from the Solent to beyond Dover and considerably more speed was made than anticipated. The ship was put under sail and so continued for twelve hours. The ship arrived off Yumiden at about 2 A.M., took the pilot on board at 5.15 A.M., and entered the ship canal shortly after 6 A.M. The ship berthed at the Holland-American pier at 8.54 A.M.

Amsterdam

Regular watch liberty was granted to cadets and a program of sight-seeing was arranged for them. Groups were guided to the points of interest by cadets from the Amsterdam Nautical School. The Nautical School was closed for vacation and was undergoing repairs so that it could not be visited. The courtesy of free tram transportation was extended to the cadets, also all cadets were taken by tug to see the harbor by courtesy of the Harbor Master. A baseball game was played between the cadet team, and a local team, resulting in a tie score of 3 to 3. Transportation to and from the ball park, which was a considerable distance from the ship, was furnished by courtesy of the Ford Motor Company, which has a large assembly plant in Amsterdam. Two gentlemen constituting a committee of a society interested in starting a nautical schoolship for training in sail for the Merchant Marine, called on board the ship.

Amsterdam to Rouen, France

Regular drill and study schedule was carried out on the 14th and 15th except that the lower classes were engaged in cleaning and ship's work. The weather throughout was misty and at times foggy. Visibility was generally low. It was planned to arrive at the mouth of the Seine by 11 P.M. on the 16th and immediately proceed up the river, but a southwest gale came up in the evening making that impossible. During the night the weather moderated, and the ship proceeded to the Roads, arriving at the entrance buoy at 7 A.M., July 16. It was necessary to lie to until the tide was favorable for crossing the bar. The pilot came on board at 1.56 P.M., and the ship then proceeded up the river arriving at Rouen at 9.30 P.M.

Rouen

The cadets were granted 48 hours liberty by watches to visit Paris, where they had an opportunity to visit the International Exposition. The ship was berthed as four years ago along the quay, the main thoroughfare of the city.

Rouen to Funchal, Madeira

It was purposed to depart from Rouen at 2.30 P.M. on the 22nd, but when trying out the engine at 2 P.M., the main engine high pressure cylinder gasket blew out. This was repacked and the ship departed at 3.30 P.M. Two tugs were required for undocking. The barometer was low and there was a strong S.W. wind. Though under three boilers, it was midnight before the pilot was dropped. Crossing the Channel towards Start Point, strong S.W. winds, almost attaining gale strength, were encountered. As fore and aft sail could be carried however, fair progress was made. When the wind began to haul to the northward a course down Channel could be set. The wind moderated during the night. In the morning of July 24 radio greetings were exchanged with the "Empire State", then off Start Point and en route from St. Thomas to Amsterdam. That evening,

the wind coming fair, the ship was put under sail. Departure was taken on Ushant Light near midnight, which we passed at 18 miles distance. The wind only held until the following night, when the ship went back to steam. Sailing was had again on the 29th, but only for a few hours. Light squalls and showers were had almost daily. A light wind, too light for sailing, came out from the northward on approaching Madeira. As it appeared that the ship would arrive off Funchal at about midnight on July 31, speed was reduced with a view of arriving in the early morning of August 1, but we had considerable southerly set, and Porto Santo island was sighted at 7.50 A.M. of the 31st and the ship arrived off Funchal at 12.27 A.M. of the 1st, anchoring at 6.17 A.M.

In the early afternoon of the 28th the forepart of the foretopmast trestletrees carrying the fid of the topgallant mast let go. Fortunately the broken parts jambed in the eyes of the topmast rigging, preventing the topgallant mast from coming down. Lashings were soon put on the topgallant mast, then the yard was sent down, after which the mast was sent down. No sail was set at the time of this casualty. The ship was rolling about 20°. The repairs necessitated a delay of a few days in Funchal.

Funchal, Madeira

Regular watch liberty was granted to cadets. Swimming was had over the side generally twice daily, and some exercise of boats under sail was had. It was intended to sail on August 9, but on that day, a number of cases of gastro-enteritis appeared and departure was postponed until August 14. The Polish Naval Training Ship "Iskra" arrived at Funchal on the 11th.

Funchal to St. Georges, Bermuda

The "Nantucket" got underway and proceeded under two boilers on the homeward bound voyage from Funchal at 4 P.M. on August 14. Upon leaving port, signals were exchanged with the Polish Training Ship "Iskra". A message of farewell was received from the Governor who was at the time on board the "Iskra". The homeward pennant was hoisted. In the early morning of the next day, the 15th, the ship was put under sail. The wind died out in the evening of the 17th and the ship was again under steam. Sail was again made on the morning of the 19th and continued to the afternoon of the 25th. From that time until the morning of the 30th, almost flat calms, with occasional rain squalls, were experienced. Final and term examinations were started on the 25th and scheduled for completion on the 31st. Physical examinations were held. On August 29 the Surgeon diagnosing the illness of a cadet in the second class as a case of appendicitis which needed hospitalization, a third boiler was at once ordered and the ship headed for Bermuda. The following morning no improvement was noted in the cadet's case, the fourth boiler was ordered in order to reach Bermuda as soon as possible. The "Nantucket" arrived at St. Georges at 4.03 P.M. on August 31. The cadet was immediately taken ashore to the King Edward Memorial Hospital where a successful operation was performed.

St. Georges, Bermuda

The Mayor of St. Georges on September 1 arranged for a cadet liberty party to visit the aquarium, furnishing a launch to tow the ship's cutters. Pulling boats were used entirely, the motor launch not being hoisted out. Swimming off the ship was had as practicable. It was verv hot at St. Georges; the summer was said to be the hottest in thirty-six years.

St. Georges to New Bedford

The "Nantucket" left St. Georges at 4.27 P.M. on September 3 under two boilers for New Bedford. The passage was uneventful. A church service was held on Sunday, and Monday, September 6, was observed as a holiday. The "Nantucket" arrived at New Bedford and moored at the State Pier at 10.49 A.M. on September 7.

New Bedford

The State Pier furnished a very convenient berth for the "Nantucket", the ship being permitted to berth at the Pier through the courtesy of Captain Llewellyn Roberts, a graduate of the school in the class of 1919. The ship was open to visitors afternoons and many took advantage of the opportunity.

Fall River

The "Nantucket" got underway at 5.33 A.M. on September 10, and proceeded under two boilers to Fall River. The passage was without incident. Fire drill was held en route. The ship anchored off the city pier, Fall River, at 12.52. Regular watch liberty was granted the cadets, that of September 10 and 11 being extended to 8 A.M. the following morning. Visitors were received on board the ship in the afternoons. The ship left Fall River on September 13 and arrived at Mattapoisett on the same day.

The ship left Mattapoisett on September 20 and arrived in Boston on September 21.

The offer of Captain Roberts, who courteously offered to pilot the ship through the Cape Cod Canal, was accepted.

Cruise Mileage

	Days	Hours	Minutes	Miles
Steam	33	05	42	5,503
Sail	15	21	08	2,231
Steam and sail	15	13	38	2,690
Total at sea	64	16	28	10,424
In port	64	04	22	
Total for voyage	128	20	50	

Coal Report

The following is a report of coal consumption for the cruise of 1937:

On hand and received	737 tons
Expended	717 tons
Remaining, September 21	20 tons

Items

Moving ship	456 tons
Auxiliaries and lighting	205 tons
Distilling	50 tons
Galleys	6 tons
Total expended	717 tons

The School Record

During the year there have been 180 students on the rolls of the school. They came from 85 cities and towns of the Commonwealth as follows:

Andover	1	Lawrence	1	Reading	1
Arlington	1	Leominster	1	Rockport	1
Athol	1	Lexington	1	Salem	1
Attleboro	1	Lunenberg	1	Saugus	1
Barnstable	1	Lynn	2	Segreganset	1
Bedford	1	Malden	5	Sharon	1
Belmont	1	Marblehead	2	Somerville	6
Boston	21	Marlborough	2	So. Swansea	1
Braintree	2	Medford	4	Springfield	7
Bridgewater	1	Melrose	6	Stoneham	1
Brockton	1	Methuen	3	Stoughton	1
Brookline	1	Middleborough	2	Taunton	2
Cambridge	4	Milton	2	Uxbridge	1
Dalton	1	Needham	1	Waban	1
Dedham	1	Neponset	1	Wakefield	2
Easthampton	1	New Bedford	8	Walpole	1
Edgartown	1	Newton	3	Waltham	4
Everett	2	No. Abington	1	Waverly	1
Fall River	2	No. Andover	1	Wellesley	1
Falmouth	2	No. Dartmouth	1	Wenham	1
Framingham	1	No. Westport	1	Westfield	2
Gloucester	4	Norwood	2	Westwood	1
Greenwood	1	Orange	1	Weymouth	4
Hanover	1	Peabody	1	Winchendon	1
Haverhill	4	Pepperell	2	Winchester	1
Hingham	2	Pocasset	1	Winthrop	1
Housatonic	1	Quincy	6	Wollaston	6
Ipswich	1	Randolph	1	Worcester	3
Total					180

The previous education of these students was as follows: High schools, 159; technical schools, 9; academies, 7; colleges, 4; preparatory schools, 1. The average age of the cadets at entrance was 18 years, 8 months. The number of cadets enrolled in the school at present is 119.

Cadet Officers of the Massachusetts Nautical School
Summer Term

Navigation

Roger H. Banner . . . . . *Senior Cadet Officer*
John R. Edmands . . . . . *Junior Cadet Officer*

Engineering

John S. Gietek . . . . . *Senior Cadet Engineer Officer*
Richard V O'Neil . . . . . *Junior Cadet Engineer Officer*

Winter Term, 1937-38

Navigation

Milton L. Austin . . . . . *Senior Cadet Officer*
Norman Howe, Jr. . . . . *Junior Cadet Officer*

Engineering

Raymond V. Pierszalowski . . . . . *Senior Cadet Engineer Officer*
Floyd E. Gray . . . . . *Junior Cadet Engineer Officer*

Lectures: Winter Term, 1936-37

1936

Oct. 30. Capt. Clarence A. Abele, U.S.N., Superintendent of the School. Subject: "On Getting Along."
Nov. 6. General Electric Company. Pictures (Electrical subjects.)
Nov. 13. Mr. Horace Taylor. Subject: "Astronomy."
Nov. 20. Mr. Columbus Iselin. Subject: "Oceanography."
Dec. 4. General Electric Company. Pictures (Electrical subjects.)
Dec. 11. Dr. Charles E. Park. Subject: "Clipper Ships."
Dec. 18. Prof. Eldon R. James. Subject: "Marine Law."

1937

Jan. 8. General Electrical Company. Pictures (Electrical subjects.)
Jan. 15. Mr. Robert M. Gray, Executive Officer of the School. Subject: "Painting."
Jan. 22. Mr. Philip J. Fanning. Subject: "Cargo, Stowage and Care."
Jan. 29. Mr. G. Harold Noyes. Subject: "Weather Charts and Forecasting."
Feb. 5. General Electric Company. Pictures (Electrical subjects.)
Feb. 12. Mr. Ervin L. Kelley, Chief Engineer of the School. Subject: "Moulding."
Feb. 19. Capt. Charles M. Lyons. Subject: "Cases under 'The Rules'."
Feb. 20. Mr. Robert M. Gray. Travel slides.
Feb. 21. Entertainment. Sound pictures.
Feb. 26. The Texas Company, Mr. C. H. Rich, Jr. Subject: "Marine Lubrication."
Mar 5. Mr. Frank E. McLean. Subject: "Inspection Cases."

Officers and Instructors

Clarence A. Abele, Captain, U.S.N. (retired), Superintendent.
Robert M. Gray, Lieutenant, U.S.N.R. (graduate M.N.S.), Executive Officer.
John W. Thompson, (graduate M.N.S.), Navigator.
Richard T. Rounds, (graduate M.N.S.), Watch Officer.
Louis A. Woodland, (graduate M.N.S.), Watch Officer.
Ervin L. Kelley, Lieut.-Comdr., U.S.N.R. (graduate M.N.S.), Chief Marine Engineer.
Norman L. Queen, Lieutenant, j.g., U.S.N.R. (graduate M.N.S.), Assistant Marine Engineer.
John E. Wright, Instructor in Mathematics.
Charles M. Taylor, Instructor in Mechanical Drawing.
Alexander D. Langmuir, M.D., Surgeon, Summer Term.
Ashton Graybiel, M.D., Surgeon, Winter Term.
Charles Parker, Paymaster.

Graduation Exercises

The eighty-fifth graduation exercises were held on board the "Nantucket" at the Navy Yard, Charlestown, on Tuesday, April 6, 1937, at 11 A.M. The program was as follows:

Prayer: Capt. Thomas B. Thompson, (Ch.C.), U.S.N., Navy Yard, Charlestown.

Presiding Officer: Mr. Clarence E. Perkins, Chairman of the Commissioners of the School.

Address: Lieut. Comdr. Walter K. Queen, Commissioner, Massachusetts Nautical School.

Address: Adjutant General Charles H. Cole.

Address: Mr. John J. Halloran, Manager, American Republics Line.

Address: Rear Admiral Walter R. Gherardi, U.S.N., Commandant of the First Naval District.

Prize awarded by the Boston Marine Society to the graduate excelling in those qualities making for the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership. Presented by Capt. Charles H. Hurley, to Francis A. Litchfield, of Malden.

Prizes awarded by Mr. Arthur M. Wiggin of Brookline to the graduates in the Seamanship Class and in the Engineering Class making the greatest improvement in all around work during the past year. Presented by Mr. Theodore L. Storer, Commissioner of the School to Francis A. Litchfield of Malden, Seamanship Class; Cutler C. Crowell of Wellesley, Engineering Class.

Prize awarded by The Society of the War of 1812 to the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have characterized the Navy and Merchant Marine of the United States. Presented by Col. Frederic Gilbert Bauer, President of the Society, to Edward T. Richmond of Springfield.

Prize awarded by the Massachusetts State Society, United States Daughters of 1812, to the graduate in the engineering division standing highest in engineering and electricity. Presented by Mrs. Henry Anthony Fiske, President, to Stanley B. Zylinsky of Methuen.

Prize awarded by Mr. William H. Dimick, Secretary of the Board, to the graduate receiving the highest final average. Presented by Mr. Dimick, to Willis M. Hayden, Jr., of Quincy.

Presentation of Bibles given by the Massachusetts Bible Society: Chaplain Thompson.

Presentation of Diplomas: Mr. Patrick T. Sullivan, Deputy Commissioner, Massachusetts Department of Education.

The eighty-sixth graduation exercises were held on September 28, 1937, at 11 A.M.

Prayer: Capt. Thomas B. Thompson, (Ch.C.), U.S.N., Navy Yard, Charlestown.

Presiding Officer: Mr. Clarence E. Perkins, Chairman of the Commissioners of the School.

Address: Mr. Theodore L. Storer, Commissioner of the Massachusetts Nautical School.

Address: Hon. John F. Fitzgerald, Member of the Boston Port Authority.

Address: Rear Admiral Walter R. Gherardi, U.S.N., Commandant of the First Naval District.

Prize awarded by the late Irving L. Wood to the graduate having the highest marks in Seamanship and Navigation for the year. Presented by Mr. Theodore L. Storer, Commissioner of the School, to Willis M. Hayden, Jr., of Quincy.

Prize awarded by the Boston Marine Society to the graduate excelling in those qualities making for the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership. Presented by Capt. Charles H. Hurley, class of 1915, to Roger H. Banner, of Segreganset.

Prizes awarded by Mr. Arthur M. Wiggin of Brookline to the graduates in the Seamanship Class and in the Engineering Class making the greatest improvement in all around work during the past year. Presented by Mr. Wiggin to Thomas H. Greany, Jr., of South Swansea, Seamanship Class; Roland H. Estey, Jr., of Reading, Engineering Class.

Prize awarded by The Society of the War of 1812 to the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States. Presented by Lieut. Col. Walter Merriam Pratt, First Vice-President of the Society, to John A. Elder, of Waverly.

Prize awarded by the Massachusetts State Society, United States Daughters of 1812, to the graduate in the engineering division standing highest in engineering and electricity. Presented by Mrs. Milburn Edgar Yeager, President of the Society, to John S. Gietek, of Westfield.

Prize awarded by Mr. William H. Dimick, Secretary of the Board, to the graduate receiving the highest final average. Presented by Mr. Dimick, to Roger H. Banner, of Segreganset.

Presentation of Bibles given by the Massachusetts Bible Society: Chaplain Thompson.

Address and Presentation of Diplomas: His Excellency Charles F. Hurley, Governor of Massachusetts.

Cadets Admitted, Graduated, and Honorably Discharged, from 1893 to 1937, Inclusive

	Admitted	Graduated			Honorabyl discharged	Withdrawn, dismissed, dropped	Number connected with the school
		Seamanship Class	Engineer Class	Totals			
1893	141	—	—	—	29	24	138
1894	63	—	—	—	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	138
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	50	19	9	188
1923	77	27	16	43	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
1929	71	23	29	52	12	7	189
1930	62	33	19	52	8	3	180
1931	74	38	19	57	6	9	191
1932	50	23	22	45	2	3	169
1933	65	40	30	70	5	1	184
1934	55	20	20	40	4	1	163
1935	68	40	22	62	7	2	186
1936	58	26	19	45	4	4	172
1937	61	36	24	60	1	—	180
Total	3,173	971	834	1,805	749	500	

Membership of the School

Graduating Class, April, 1937

Seamanship Division

Name	*Residence*
*Hayden, Willis M., Jr.	Quincy
*Mulcahey, James A., Jr.	Westfield
*Matheson, David W.	Quincy
Litchfield, Francis A.	Malden
*Littlefield, Nathan W.	Sharon
*Reed, Roy B., Jr.	Lynn
*Perkins, William W.	Hingham
Guild, George S.	E. Milton
Dexter, Edwin B.	Roslindale
*Rowlands, Walter, 2nd	Needham
Fielden, Robert W.	Andover
Beatteay, Walter E.	Lexington
Hathaway, Louis S.	Middleboro'
Larsen, Peter W.	Cambridge
Kuta, Benjamin	Easthampton
Costello, David L.	Milton
Larsen, Karl J.	Somerville
Hiorth, Anders S.	Wollaston
Iliffe, George E.	Cambridge
Gallison, Raymond M.	Haverhill

Engineering Class

*Richmond, Edward T.	Springfield
*Zylinsky, Stanley B.	Methuen
Ellis, Arthur G., Jr.	Methuen
Rolfe, Thomas W.	Stoneham
Greeley, Gerald G.	Dorchester
Hurwitch, Martin B.	Mattapan
Uzdavinis, Leon A.	Haverhill
Knight, Ralph H.	Gloucester
Carlson, Gustav B.	Newton Center
Korman, Fenton F., Jr.	Springfield
Crowell, Cutler C.	Wellesley
Paul, Charles	Lawrence
Leary, Charles J.	Fall River

Graduating Class, September, 1937

Seamanship Division

*Banner, Roger H.	Segreganset
*Herlich, Joseph	Lynn
Bowden, Frederick W.	New Bedford
*Clayton, John	New Bedford
*Rose, John P., Jr.	New Bedford
Perry, Taber B.	Pocasset
Edmands, John R.	Cambridge
Moore, James F.	Stoneham
Hathaway, Holland M.	Malden
Cain, John R.	Quincy

(*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar)

Rand, Melvin A.	Orange
Fraser, Robert G.	Wollaston
Kennedy, William T.	Middleborough
Greany, Thomas H., Jr.	S. Swansea
Nath, Carl J.	South Boston
Wayman, Charles S., Jr.	Falmouth

Engineering Division

*Gietek, John S.	Westfield
Elder, John A.	Waverly
O'Neil, Richard V.	Brookline
Kuechler, Clifton S.	New Bedford
Dow, Chester A., Jr.	Malden
Pitman, Paul W.	Saugus
Arrigo, Philip M., Jr.	East Boston
Estey, Roland H., Jr.	Reading
Donnelly, James A.	South Boston
Larsen, Lawrence N.	Somerville
Hallett, Robert W.	Braintree

Class to Graduate, March, 1938

Seamanship Division

*Cook, George C.	Quincy
*Duffee, Paul F.	Neponset
*Edwards, David L.	Brighton
Howe, Norman, Jr.	Dalton
Veeder, Richard W.	Gloucester
Garland, Nelson F.	Bedford
Austin, Milton L.	Attleboro
Murphy, Francis J.	Medford
Ford, Francis J., Jr.	Worcester
Achimore, A. Paul	Medford
Grime, Frank, Jr.	New Bedford
Johnson, Johannes A.	Norwood
Donohue, Leo F.	Malden
Moore, Albert F., Jr.	Melrose
Cookson, William	West Newton
Ormsby, Albert R.	Worcester
Deacon, Archie K.	Gloucester
Full, William A.	Marblehead

Engineering Division

*Smith, Kenneth G.	Springfield
*Pierszalowski, Raymond V.	Athol
Berwick, Thorndike J.	Methuen
Gray, Floyd E.	Rockport
Johnson, C. H. Chester	Norwood
Cass, Herman J., Jr.	No. Andover
Crown, Roger A.	Wollaston
Slayton, Wendell D.	Waltham
Kaufman, Leon F.	Roxbury
Bienia, John P.	New Bedford
Lingham, Theodore T.	So. Braintree
Neill, John R. J.	Springfield
Arnold, William B., 2nd	No. Abington
McLean, Phillips B.	Bridgewater

(*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar)

Class to Graduate, September, 1938

Seamanship Division

*Lancaster, John H.	Brockton
*McKenna, John P.	Dorchester
Scott, Ian R.	Medford
Ceppi, William J.	Dorchester
*Gilman, Roger B.	New Bedford
*Tobey, Robert D.	Gloucester
Albatys, Edward J.	Housatonic
Cooper, Ralph H.	Watertown
McLeod, Douglas S.	Springfield
Luken, Roy E., Jr.	Wakefield
Hutchinson, Norman R.	Salem
Macomber, Robert H.	Boston
Millar, Harold F.	Wakefield
Nolan, Joseph W.	Arlington
DeMontier, Leon R.	Melrose
Slavin, Philip M.	Winchendon
Morris, Van H.	Melrose
Howe, E. Hibbard	Quincy

Engineering Division

Borden, Edwin S.	No. Westport
Trowt, George B.	Wenham
DuMoulin, John L.	Dorchester
Bent, Wendell E.	So. Peabody
Marzullo, John S.	Everett
Mortimer, Ernest W., Jr.	Egdartown
Studley, Liba L.	Hingham Center

Class to Graduate, March, 1939

Allen, Donald G.	Wollaston
Bamford, Robert C.	Ipswich
Hayward, Loring F.	Taunton
Brown, Norman M.	Taunton
Smith, Robert H.	Wollaston
Bergenheim, Harold B.	Dorchester
Hall, Robert E.	Somerville
Watts, Bernard A.	Malden
Steward, Roger A.	Winthrop
Sheehan, William F., Jr.	Winchester
Hallbourg, Walter T.	East Pepperell
Walukiewicz, Joseph R. (Volick)	Cambridge
Vigue, George D.	Framingham
Howe, Frank C., Jr.	Wollaston
Shaw, Milton H.	New Bedford
Shea, Bernard M.	Dorchester
Wheble, Edwin R.	Quincy
Burke, Thomas E.	Allston
Romanos, Arthur R.	Fall River
Alther, George W., Jr.	Melrose
Wayman, Richard P.	Falmouth
Tibbetts, Alden M.	Melrose
Hennigan, Timothy J., Jr.	Somerville
Johnson, Freeman K.	Waltham
Judge, William E., Jr.	West Roxbury

(*Received 85 per cent, or over, of the academic multiple and entitled to wear gold star on coat collar)

Laforet, Louis F.	Waltham
Geehan, James J., Jr.	Marlboro
Barry, Edwin F.	Everett
Gilmartin, Francis D.	Walpole
Johnson, Ralph F.	Somerville
Champagne, Joseph R.	Haverhill
Bell, Charles W.	Waltham
Carleton, William H.	Hanover

Class to Graduate, September 1939

(Alphabetically arranged)

Blaher, Lawrence J.	Hyde Park
Boland, Kells M.	Melrose
Bosché, Frank N.	East Weymouth
Brown, Earl S.	Marlboro
Burkett, Leon A., Jr.	Stoughton
Chace, Robert M.	No. Dartmouth
Danielson, Bert	Watertown
Eldridge, Kenneth	Marblehead
George, Harold F.	W. Barnstable
Gilleland, John E., Jr.	Medford
Greene, Paul	Dorchester
Harrington, George E.	Haverhill
Hodges, Sidney B.	Dedham
Houghton, George A.	E. Pepperell
Lazott, Harlow A.	Worcester
Lodigiani, Edward C.	Springfield
Mason, Wallace R.	Leominster
Montgomery, William A.	Belmont
MacGregor, Robert O.	Roslindale
McCabe, Hugh T.	Somerville
Person, Kurt G. R.	Worcester
Redmayne, Richard B.	Norwood
Schortmann, Walter E.	Springfield
Schroeder, William H. E.	Newton
Stetson, Harold B.	Waban
Wade, John M., Jr.	Randolph
Wilder, Albert L.	No. Weymouth
Wilder, Arthur T.	No. Weymouth
Wyman, Arthur R.	Uxbridge

Appropriations

The appropriations for the school for the fiscal year 1937, from December 1, 1936, to November 30, 1937, are accounted for as follows:

Expense of Schoolship	Appropriations	Expenditures
Personal Services	$45,600.00	$46,985.06
Travel, transportation and office expenses	900.00	937.23
Food	23,600.00	24,265.03
Furnishings and household supplies	1,000.00	744.43
Medical and general care	1.450.00	1,776.76
Heat, light, power, etc.	8,000.00	8,146.06
Repairs, ordinary	2,100.00	1,420.77
Repairs and renewals	2,200.00	
Miscellaneous	6,500.00	5,861.18
Brought forward from 1936 appropriation	.70	
	$91,350.70	$90,136.52
Unexpended balance		1,214.18
	$91,350.70	$91,350.70
Expense of Commission		
Office supplies and equipment	$220.00	$166.08
Traveling and other services and expenses	1,960.00	1,792.32
	$2,180.00	$1,958.40
Unexpended balance		221.60
	$2,180.00	$2,180.00
Personal Services		
Commissioners' office	$4,959.00	$4,959.00
Income		
Received from Navy Department	$25,000.00	
Received from tuition and other fees	11,805.18	
Other Income	150.00	
	$36,955.18	

Financial Statement Verified.

Approved: GEO. E. MURPHY,
Comptroller.

Respectfully submitted,

CLARENCE E. PERKINS, *Chairman*
THEODORE L. STORER
WALTER K. QUEEN
Commissioners.

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NORTHAMPTON, MASS.

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THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF EDUCATION

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ANNUAL REPORT

OF

THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1938

MASSACHUSETTS NAUTICAL SCHOOL
100 NASHUA STREET, BOSTON

Publication of this Document Approved by the Commission on Administration and Finance.
800. 2-'39. Order 6481.

THE COMMONWEALTH OF MASSACHUSETTS

DEPARTMENT OF EDUCATION

JAMES G. REARDON, *Commissioner of Education*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL

100 NASHUA STREET, BOSTON

CLARENCE E. PERKINS, *Chairman*
THEODORE L. STORER
WALTER K. QUEEN

WILLIAM H. DIMICK, *Secretary*

REPORT OF THE COMMISSIONERS

To the Commissioner of Education:

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1938, the forty-seventh annual report.

SCHOOL CALENDAR, 1938

Spring entrance examinations	March 31, April 1, 2
Spring graduation	April 5
Winter term ended	April 5
New class reported	April 21
Leave, 1st Section	April 6 to 20
Leave, 2nd Section	April 20 to May 4
Summer term commenced	May 4
"Nantucket" sailed from Boston	May 14
"Nantucket" arrived at Boston	September 20
Autumn entrance examinations	September 22, 23, 24
Autumn graduation	September 27
Summer term ended	September 27
New class reported	October 13
Leave, 1st Section	September 30 to October 14
Leave, 2nd Section	October 14 to 28
Winter term commenced	October 28

OBJECTS AND REQUIREMENTS OF THE SCHOOL

The Massachusetts Nautical School was established forty-seven years ago for the purpose of giving the young men of the State, who desired to enter upon a seafaring career, an opportunity to obtain in a public school a theoretical and practical knowledge of seamanship, navigation, and marine engineering.

Applicants for admission to the school must be residents of the State, and between seventeen years and their twentieth birthday. Admission is

by competitive examination, the examinations being held twice a year, in March and in September. Candidates must be free from any serious physical defects, especially as to vision, hearing and speech.

The first year deposits amount to $300, and the deposits for the second year total $150. These amounts cover all expenses.

The course of study covers a period of two years. Theoretical instruction is given during the winter months while the ship is berthed at the Navy Yard, Boston. Practical and theoretical instruction is given during the five months practise cruise, usually in Euporean waters. The catalogue and application blanks can be had at the office of the Commissioners, 100 Nashua Street, Boston.

The Winter Term

During the winter term the Schoolship "Nantucket" was berthed as usual at Pier 1, Navy Yard, Charlestown by courtesy of Rear Admiral William T. Tarrant, U. S. N., Commandant of the First Naval District. The ship was housed over and the work was maintained with classes on board the ship and in rooms in a Navy Yard building. The morning hours were devoted to studies and recitations with practical work in the afternoon.

On February 1, 1938, the ship was moved from Pier 1 to Pier 5 in order to facilitate the work of repairs. During the spring overhaul, the Navy Department made the following repairs to the "Nantucket": construction and repair $11,208, engineering department $4,234. These repairs, together with repairs to the ship's chronometers at the Naval Observatory, were made without cost to the State.

The following lectures were given on board on Friday evenings during the winter term:

1937

Oct. 29. Capt. Clarence A. Abele, U.S.N., Superintendent of the School. Subject: "Transporting Troops."

Nov. 5. Dollar Steamship Lines, Inc. Subject: "Cruising the Seven Seas."

Nov. 12. Grace Line. Subject: "In the Path of the Galleons."

Nov. 19. Dr. H. J. Warner, Public Health Service. Subject: Quarantine Rules and Regulations.

Dec. 3. Plymouth Cordage Company. Subject: "The Story of Rope."

Dec. 10. Capt. F. S. Walker, class of 1905, Hull Inspector. Subject: "Marine Inspection Cases."

Dec. 17. Capt. Charles H. Hurley, class of 1915. Subject: "Care and Handling of Cargo."

1938

Jan. 7. Capt. George E. Eaton, class of 1895. Subject: "Radio Aids to Navigation."

Jan. 14. Colonial Beacon Oil Company. Subject: "Marine Lubrication."

Jan. 21. Capt. Herman T. Parker, class of 1902. Subject: "The Deck Officer."

Jan. 28. Mr. Frank E. McLean. Subject: "Marine Inspection Cases."

Feb. 4. Mr. William Renz. Subject: "Ship Classification."

Feb. 11. Mr. Fred J. Wallace. Subject: "Diving."

Feb. 18. Columbian Steamship Company. Subject: "Roaming the Spanish Main."

Feb. 25. Lieut. Comdr. Walter K. Queen, U.S.N.R. Subject: "Polar Travels."

Mar. 4. Capt. Robert M. Gray, class of 1912. Subject: "Service Afloat."

The Summer Term

The unsettled conditions existing in Europe early in the year made it advisable, in planning the itinerary for the summer practice cruise, to make a radical change, and omit all ports in continental Europe. As will be seen by the detailed report on the cruise given elsewhere, the cruise was limited, in addition to the home ports, to a port in the Azores, a port in the Madeira Islands, two ports in the West Indies, and Halifax, Nova Scotia. Favorable conditions existed during the summer and excellent progress was made with the routine drills and studies. Ships work was carried on in a normal manner. The cruise was a notable one for the large amount of mileage made under sail alone. The total mileage was 10,601, and 4,131 miles were made under sail.

New Schoolship

The present schoolship, the U.S.S. NANTUCKET, is a staunch and seaworthy vessel, but the Commissioners and the Navy Department believe that a larger ship of modern type is desirable. To that end, Senator David I. Walsh has introduced into Congress legislation providing for the construction of a new schoolship.

Appointment of Commissioner

Lieut. Comdr. Walter K. Queen, United States Naval Reserve, was reappointed a Commissioner of the School for a period of three years, from July 1, 1938.

Assistant Marine Engineer

Mr. Norman L. Queen, Lieutenant, United States Naval Reserve, class of 1926, Assistant Engineer and Instructor in the School, resigned on October 31, 1938, after nine and a half years of service. Lieutenant Queen, both as an officer and as an instructor, rendered faithful and efficent service, and the Commissioners accepted his resignation with regret. The vacancy was filled by the appointment of Theodore P. Ebsary of the class of 1932.

The Graduates

An unusually large percent of the graduates of the school follow the vocation for which they were trained. During the last ten years, 409 out of 504 graduates, or more than 80%, are engaged in the maritime industry. As far as known about 75% of the living graduates are following the sea or allied occupations.

New Ships for American Shipping

The United States Maritime Commission has signed contracts providing for the construction of many modern freight and passenger ships. More ships are being constructed in American shipyards at the present time than for many years. There are being built 124 merchant ships, totalling 519,965 tons. The largest ship on the ways is a trans-Atlantic

liner of 25,000 tons, to be added to the fleet of the United States Lines. The Maritime Commission recommends the construction of five hundred ships during the next ten years.

The United States Naval Reserve

At the invitation of the Navy Department, a conference of the governing bodies and Superintendents of the State nautical schools was held in Washington on April 12, 1938. The conference was attended by representatives from the four State schools. Commissioner Walter K. Queen and Captain Clarence A. Abele, U.S.N., Superintendent of the School, were present representing the Massachusetts Nautical School. Mr. James F. Rawdon and Captain William W. Storey were present representing the Massachusetts Nautical School Alumni Association; Mr. Rawdon being President of the Association. The object of the conference was to bring about a closer cooperation between the Navy Department and the State nautical schools; also to coordinate the work of the four schoolships.

Captain Felix X. Gygax, U.S.N., Director of the Naval Reserve, in the Bureau of Navigation, presided at the conference. The opening addresses at the conference were made by Captain C. W. Nimitz, U.S.N., Bureau of Navigation, Navy Departemnt, and Captain Gygax. In referring to the State nautical schools, Captain Gygax said: "The Navy Department acknowledges and commends the splendid results that have been achieved, as attested by the fine record of the graduates of these nautical schools at sea, and the success of many more in positions of high trust and responsibility in connection with the administration and operation of the maritime industry ashore."

The conference resulted in the following action: First, the curricula of the State nautical schools have been extended and the schools will definitely prepare young men not only for service in the American merchant marine but also in the United States Naval Reserve. The following nine naval subjects have been included in the course of study: Navy Regulations, Naval Law, International Law, Types and Characteristics of Naval ships and aircraft, Tactics and Manoeuvering, Ship Drills, Gunnery, Communications, and Damage Control. The instruction in these subjects is given in the form of lectures by Naval officers. Second, the Bureau of Navigation, under authority of the Secretary of the Navy, issued instructions to the Naval District Commandants providing for the admission of nautical school students in the Naval Reserve as Merchant Marine Cadets, in accordance with the Naval Reserve Act, approved June 25, 1938. Third, the Chief of Bureau of Navigation and the Chief of Naval Operations recommended to the Secretary of the Navy that appropriate steps be taken to secure from the Maritime Commission the allocation of funds for the construction of suitable vessels as replacements for the present State schoolships, as necessary; the ships to be of such a character as to be readily usable as naval auxiliaries in an emergency. The recommendation was immediately approved by the Secretary of the Navy.

Training for the Sea

A century and more ago the rugged seamen of our merchant marine, whose skill, enterprise and courage were recognized the world over, were trained on board the small American vessels sailing to all parts of the world. The training thus received was severe, haphazard, and at times most discouraging. A young man shipped as seaman or cabin boy and by slow process advanced from the galley or forecastle to the quarterdeck. One of the noted American vessels during the first half of the last century was the ship "George", 328 tons, of Salem. This little vessel was

known as the "Salem Frigate" because of her speed and regularity of her voyages. She made twenty-one round trips between Salem and Calcutta between 1815 and 1837, a period of twenty-two years. We are told that forty-five men who served in the forecastle of this small craft became masters, and twenty-six mates. The ship "George" and other American ships of her day and generation, making long voyages, were the schoolships on which young men were trained for officers' positions.

As our merchant marine developed, it was considered advisable to provide more specifically for a supply of competent officers. Ship owners arranged to carry apprentices and give them special training. During the clipper ship era many ships carried from four to eight ambitious American boys as apprentices. Special quarters were provided for them and they were paid five dollars a month.

With the passing of the square rigged sailing vessel and the advent of the steamship, the ratings of cadet and quartermaster appeared on the ship's payroll. About forty-five years ago, a law was passed by Congress requiring certain American mail steamers to carry one cadet for each 1,000 gross tons, one-half on deck and one-half in the engine room. Conforming with the provisions of this law, cadets were carried by the American Line, the Pacific Mail Line, and by several lines running to the West Indies. The cadets were paid fifteen dollars a month and were supposed to receive training in seamanship and navigation. In preparing young men for a seafaring life, the rating of quartermaster has in the past been very serviceable. The principal duty of a quartermaster is to steer the ship under the direction of an officer. The work affords a good opportunity to learn by observation the duties of an officer.

New Cadet System

The United States Maritime Commission, Rear Admiral Emory S. Land, U.S.N., Chairman, established on March 15, 1938, a new system of training young men for the sea to supercede the arrangement which has been in operation since 1891. The new system provides for training young men on board government owned or subsidized ships.

The appointees are divided into two classes, cadet officers and cadets. Applicants for appointment as cadet officers must be between the ages of nineteen and twenty-five, and qualified graduates of the State nautical schools, the United States Naval Academy at Annapolis, or the Coast Guard Academy at New London, Connecticut, holding licenses from the Bureau of Marine Inspection and Navigation as third mates or third assistant engineers. Cadet officers are paid $75 a month and maintenance.

The position of cadet is open to all young men between the ages of seventeen and twenty-five who have a predilection and aptitude for the sea, and who are ambitious to prepare themselves for a life career as an officer in the American merchant marine. Cadets are paid $50 a month with maintenance and allowances.

Cadet officers and cadets live on board ship with the licensed personnel. A course of study and training will be prescribed by the Maritime Commission for both classes.

Graduates of the School in 1938

The following is a list of the fifty-seven graduates of 1938, the names of their home towns, and their first employment:

Name	Residence	Vessel	Service
A. Paul Achimore	Medford	S. S. Missouri	Cities Service Co.
Edward J. Albatys	Housatonic	S. S. "Argentine"	American Republics Line
William B. Arnold, 2nd	No. Abington	S. S. Argentina	American Republics Line
Milton L. Austin	Attleboro	S. S. West Isleta	American South African Line
Wendell E. Bent	So. Peabody	At sea	Moore & McCormack Co.
Thorndike J. Berwick	Methuen	S. S. Ida H. Atwater	Atwater Steamship Co.
John P. Bienia	New Bedford	At sea	Cities Service Co.
Edwin S. Borden	No. Westport		
Herman J. Cass, Jr.	No. Andover	S. S. City of Elwood	American Pioneer Line
William J. Ceppi	Dorchester	S. S. Scanyark	Moore & McCormack Co.
George C. Cook	Quincy	S. S. Yomachichi	American Pioneer Line
William Cookson	Wes. Newton	S. S. Oneida	Clyde & Mallory Line
Ralph H. Cooper	Watertown	At sea	Mallory Line
Roger A. Crown	Wollaston	S. S. Hadnot	Cities Service Co.
Archie K. Deacon	Gloucester	Tender Anemone	United States Lighthouse Service
Leon R. DeMontier	Melrose	At sea	United States Lines
Leo F. Donohue	Malden	M. S. West Cussetta	American LaFrance Line
Paul F. Duffee	Neponset	M. S. Ward	American Pioneer Line
John L. DuMoulin	Dorchester	At sea	United States Lines
David L. Edwards	Brighton	Tender Anemone	United States Lighthouse Service
Francis J. Ford, Jr.	Worcester	S. S. Virginia	Panama Pacific Lines
William A. Full	Marblehead	S. S. St. John	Eastern Steamship Lines
Nelson F. Garland	Bedford	M. S. Tampa	American Pioneer Line
Roger B. Gilman	New Bedford	S. S. Lammot DuPont	International Freighting Corp.
Floyd E. Gray	Rockport	S. S. Ida H. Atwater	Atwater Steamship Co.
Frank Grime, Jr.	New Bedford	S. S. Toledo	Cities Service Co.
E. Hibbard Howe	Quincy		Fore River Shipbldg. Co.
Norman Howe, Jr.	Dalton	M. S. West Cussetta	American La France Line
Norman R. Hutchinson	Salem		
C. H. Chester Johnson	Norwood	S. S. Mormacrey	American Scantic Line
Johannes A. Johnson	Norwood	S. S. City of Elwood	American Pioneer Line
Leon F. Kaufman	Roxbury	M. S. Crown City	American Pioneer Line
John H. Lancaster	Brockton	Naval Architecture	Webb Institute
Theodore T. Lingham	So. Braintree	S. S. Yomachichi	American Pioneer Line
Roy E. Luken, Jr.	Wakefield	Lightship 81	U. S. Lighthouse Service
Robert H. Macomber	Boston		
John S. Marzullo	Everett	At sea	U. S. Lighthouse Service
John P. McKenna	Dorchester	S. S. Independence Hall	American La France Line
Phillips B. McLean	Bridgewater	M. S. Tampa	American Pioneer Line
Douglas S. McLeod	Springfield	S. S. "American Traveler"	United States Lines
Harold F. Millar	Wakefield	At Sea	Cities Service Co.
Albert F. Moore, Jr.	Melrose	S. S. Macabi	United Fruit Co.
Van H. Morris	Melrose	At sea	American Hawaiian Line
Ernest W. Mortimer, Jr.	Edgartown	At sea	U. S. Lighthouse Service
Francis J. Murphy	Medford	S. S. Malampton	C. D. Mallory Line
John R. J. Neill	Springfield	At sea	Cities Service Co.
Joseph W. Nolan	Arlington	M. S. Tampa	American Pioneer Line
Albert R. Ormsby	Greenwood	S. S. Sartartia	American Republics Line
Raymond V. Pierszalowski	Athol	M. S. Ward	American Pioneer Line
Ian R. Scott	Medford	At sea	United States Lines
Philip M. Slavin	Winchendon	S. S. Independence Hall	American La France Line
Wendell D. Slayton	Waltham	Tender Lotus	U. S. Lighthouse Service
Kenneth G. Smith	Springfield	Tender Anemone	U. S. Lighthouse Service
Liba L. Studley	Hingham	S. S. President Harding	United States Lines
Robert D. Tobey	Gloucester		
George B. Trowt	Wenham	S. S. American Shipper	United States Lines
Richard W. Veeder	Gloucester	S. S. Atlantic	American South African Line

Detailed Report on the Practice Cruise

U. S. S. "Nantucket"—Itinerary 1938

Left—	Arrived at—
Boston, May 14	Rockport, May 14
Rockport, May 19	Baltimore, May 24
Baltimore, May 28	Norfolk, May 29
Norfolk, June 1	Newport, June 5
Newport, June 6	Horta, Azores, June 17
Horta, June 20	Funchal, Madeira, June 25
Funchal, June 30	San Juan, Porto Rico, July 20
San Juan, July 26	Havana, Cuba, August 1
Havana, August 6	Norfolk, August 10
Norfolk, August 13	Newport News, August 13
Newport News, August 16	Halifax, Nova Scotia, August 22
Halifax, August 26	East Lamoine, August 28
East Lamoine, September 3	Greenport, September 6
Greenport, September 8	New Bedford, September 9
New Bedford, September 12	Cataumet, September 12
Cataumet, September 18	Boston, September 20

The "Nantucket" left the United States Navy Yard, Boston, on May 14, as scheduled. A large number of visitors, including the parents of cadets, were present to see the ship sail. As the ship proceeded out of the harbor, there were many whistle salutes from craft at the docks. The passage to Rockport was uneventful. Upon clearing North Channel, fore and aft sails were set and carried to Cape Ann Whistling Buoy. The ship was anchored in Sandy Bay, off the harbor breakwater light, at 8.34 P. M.

Rockport

Regular liberty was granted by watches to 8 P. M. Monday afternoon, May 16, the cadets' baseball team played the Rockport High School nine, the latter winning by the score of nine to five. The regular general drills were held, the sail drills being held daily. Pulling boats were used as running boats. The town float not being in commission, the use of the facilities of the Sandy Bay Yacht Club were extended to the ship. The "Nantucket" got underway at 10.50 A. M. on May 19 and proceeded to the northward to swing for compass error on the Thatcher's Island lighthouse range. Upon completion of swinging ship, the course was set for Baltimore, via Pollock Rip Channel and Nantucket Shoals. Pollock Rip Channel was entered at 2.52 A.M. on the 20th, and Block Island was passed at noon of the same day. Considerable fog was encountered on the night of the 20th, and the morning of the 21st. Otherwise the weather was fine with light and variable winds. The ship entered Chesapeake Bay at 6 P. M. on the 22nd and continued up the Bay to Sandy Point, anchoring at 12.11 A. M. on the 23rd. It had been arranged that the Baltimore city tug should meet the ship at Sparrows Point to escort her to her berth in the forenoon of the 24th. At anchor off Annapolis were the battleships "New York" and "Wyoming" of the midshipmen's training squadron. During the passage routine drills were held. Man overboard drills were held as follows:

May 19th—Boat in water 1 minute 10 seconds—Buoy picked up 3 m. 20 s.—Boat hoisted 10 m.

May 20th—Boat in water 1 minute 0 seconds—Buoy picked up 3 m. 25 s.—Boat hoisted 10 m.

May 23rd—Boat in water—0 minutes 45 seconds—Buoy picked up 4 m. 25 s.—Boat hoisted 9 m. 35 s.

All machinery functioned well. Divine services were held on Sunday, most of the cadets attending. On Sunday afternoon, the ship passed through a school of whales. The "Nantucket" got underway at 6.45 A. M. May 24 and proceeded up the Channel being met at Sparrows Point by the City tug "Baltimore" and later by the police patrol boat, and escorted to berth at the Municipal Pier at the Foot of Broadway, docking at 9.20 A. M.

Baltimore

The visit of the "Nantucket" to the city of Baltimore was very satisfactory except that the weather was not good. It was rainy, or threatening rain, throughout the stay at the port. The ship was open to visitors afternoons and many came on board. On the 27th, 225 boys from a vocational school, and also a group of sea scouts, came on board. On the same day, Captain Abele, the Superintendent of the school, gave an interview which was broadcasted from Station W F B R. Regular watch liberty was granted to cadets to 10 P. M. The "Nantucket" cast off from the Municipal Pier at 10.10 A. M. on Saturday and proceeded out of the port under three boilers. Upon reaching Sandy Point one boiler was secured. The ship anchored off the Naval Operating Base at Norfolk at 6.10 A. M. to await slack water at 9.15 A. M., when the ship was gotten underway and berthed.

Norfolk

Divine service was held on board on Sunday as it was too late for a church party after the ship was secured at the dock. Memorial Day was observed by half-masting colors with ships present. The ship was coaled on June 1, taking on board 155 tons. Several groups of cadets visited the Airplane carrier "Enterprise". The "Nantucket" departed under two boilers at 6.10 P. M., June 1, for Horta, passing Chesapeake Lightship at 3 A. M., June 2.

One of the cadets showing symptoms of acute appendicitis, on June 3 the course was changed for Newport, Rhode Island, where the ship arrived on June 5, and the cadet transferred to the Newport Hospital.

The "Nantucket" left Newport under two boilers on June 6 with fine weather and a westerly breeze. Generally fine weather with high barometer and westerly winds prevailed throughout the passage to Horta. When they would draw, topsails, as well as fore and aft sails, were carried and helped considerably. Man overboard drills were held on June 7, 10, 14, and 15 with good results. It was expected to arrive at Horta at noon on June 17, but a strong southwesterly breeze with squally weather developed during the night and Fayal was sighted a short time after daylight. The "Nantucket" arrived off the port and the pilot came on board at 8.25 A. M., June 17, the ship being moored in the harbor ten minutes later.

Horta, Azores

During the stay in Horta, pulling boats were used as running boats. Regular watch liberty was granted cadets to 8 P. M. and those attending basketball games were granted an extension to 10 P. M. Two basketball games were played by the cadets with teams on shore. Many courtesies were extended to the officers and cadets by officials and others.

The "Nantucket" got underway for Funchal, Madeira, on June 20. The wind being favorable, though light, the ship was put under sail but less than four knots per hour were logged and the engine was coupled

after four hours of sailing. Light westerly winds continued until the 22nd when direction shifted to northeasterly, and in the afternoon of that day, the ship was put under sail and continued to the evening of the 24th when the wind died out. The night of the 23rd it was necessary to shorten sail as, sailing close hauled with a stiff breeze, the ship labored too hard. A good many cadets were seasick. Routine drills and studies were held during the passage. Man overboard drills were held as follows:

June 21st—Boat in water 0 minutes 55 seconds—Buoy picked up 3 m. 52 s.—Boat hoisted—10 m. 10 s.

June 22nd—Boat in water—1 minute 0 seconds—Buoy picked up 3 m. 50 s.—Boat hoisted 10 m. 15 s.

The "Nantucket" arrived at Funchal on June 25.

Funchal, Madeira

At Funchal, the usual liberty was granted to the cadets by watches. Pulling boats were used entirely as running boats. Swimming was had alongside twice daily. The ship was coaled, 188 tons being taken on board. The weather during the stay was very agreeable. Noon day temperatures were as follows: June 25, 70°; 26th, 71°; 27th, 71°; 28th, 73°; 29th, 75°; 30th, 70°.

The "Nantucket" left Funchal on June 30 under two boilers, en route for San Juan, Porto Rico. The next day the wind came out northeastward and increased to a moderate breeze towards evening when sail was made and the engine was uncoupled. During the day a Dutch steamer was sighted which was the only vessel sighted until approaching the West Indies.

July 4th was celebrated in the usual shipboard manner with a parade, sports and music. The usual divine services were conducted on Sundays and were largely attended. A moderate, and at times rather high, following sea prevailed, and the ship was lively throughout the passage. Under these conditions, the helmsmen got particularly good experience.

On July 15, the Dutch Steamship "Phobos", one hundred and thirty miles to the northward and westward, bound from Curacao to Gibraltar, asked for medical advice in the case of an apprentice on board. The Surgeon of the "Nantucket", Dr. Ashbel C. Williams, diagnosed the case to be one of Ludwig's angina, an emergency hospital case, and prescribed treatment. An offer was made to meet the "Phobos" and give surgical assistance. The Master of the "Phobos" expressed his thanks for the medical advice but declined the surgical assistance. The following day a message was received stating that the patient was better.

On the evening of July 17 a very bright meteor was observed to the northward which seemed to disintegrate not far from the ship. It had the appearance of a white Roman candle.

The only steamer to be sighted since the day after leaving Funchal was sighted as the "Nantucket" neared Sombrero Key. Sombrero Light was sighted on the 19th and the course was then set to pass to the northward of Anagada Island, northeastern most of the Virgin group. San Juan Head Light was sighted at 2.25 A. M. on July 20. The ship continued under sail until after passing San Juan Head when sail was furled. The engine was coupled up. The ship entered San Juan Harbor on July 20. The best day's run during the passage was 193 miles on the 15th, (25 hour day), the lowest day's run was on June 18, 119 miles.

San Juan, Porto Rico

At this port, the "Nantucket" was berthed at Pyramid Dock by courtesy of the Bull Line. The berth was occupied until early morning of July 23 when it had to be evacuated for a steamer due on the 24th. The "Nantucket" was then anchored 800 yards from the boat landing.

Twenty-eight cadets were taken on a tour of El Morro by courtesy of the Commanding Officer of the troops. During the day the trade wind blew fresh and the running boats were operated under sail. There were besides much pleasure sailing, the cadets handling the boats under sail well.

One afternoon, during the stay, the Brazilian Naval Training Ship "Almirante Saldanha", was sighted approaching from the westward. Later she was observed to be heading in towards the reef between Cabras Islands and Fort Ganuelo, about a mile to the westward of the harbor entrance. Finally it was observed that she was on the reef, and a signal to that effect was sent to the "Unalga" at the dock. The "Unalga" had already received a radio report of the same tenet. When the "Nantucket" left port for Havana, the "Almirante Saldanha' was lying on the reef badly listed, and the "Unalga" and the "Marion", and the destroyer "Shaw" were standing by preparing to attempt to pull her off. A message of sympathy was sent to the Commanding Officer of the "Almirante Saldanha". On the 27th the destroyer "Shaw" overhauled and passed the "Nantucket". In reply to an inquiry, information was received that attempts to float the "Almirante Saldanha" had been unsuccessful.

Squally weather obtained through the passages, and on Sunday there was particularly heavy and continued rain. Many steamers were sighted. Routine studies and drills were conducted according to schedule, with the exception of lifeboat drill. The "Nantucket" arrived at Havana on August 1.

Havana, Cuba

Hot weather was experienced at Havana. As the boat landing used was nearly a mile from the ship and the heat was intense, the motor launch was used as a running boat and for towing liberty parties. The first two days of our stay a nearer boat landing was used and pulling boats were used. The cadets played a baseball game with the nine from the Cubanelo Club. Many steamers were in and out of the port daily. The dock system seems excellent. Airplanes were arriving and departing daily.

The "Nantucket" left port on August 6 for Newport News. Fine weather prevailed throughout the passage. In making out the itinerary, consideration was not given to the Gulf Stream. With the full moon, the Gulf Stream appeared to be at maximum flow. In the vicinity of Miami, a current of 5½ knots was found; and a current seldom below 3½ knots was carried to Cape Hatteras. Many ships were sighted, occasionally four being sighted at once. Steaming in the axis of the Gulf Stream, little was seen of the Florida coast. However, the high buildings of Miami and the hotels at Palm Beach and Fort Lauderdale were sighted. While the weather was fine it was hot. After rounding Hatteras, the usual hazy weather of the Virginia coast was encountered, and after the high speeds induced by the Gulf Stream, the reduced speeds due to contrary tides were rather annoying. Man overboard drills were held on August 8, 9 and 10.

Norfolk, Virginia

At Norfolk 133 long tons of coal were taken on board. There were several naval vessels at the Naval Base and in the Roads. Many airplanes were operating from the Air Base. Eighty-eight planes were counted in the air at one time. On the 12th, the U.S.S. "Boise" was commissioned at the Base. The same day, the U.S.S. "New York" passed up to the Navy Yard not under control. She had cracked a line shaft returning from Europe with the midshipmen practise squadron. The vessel had 350 midshipmen on board. Many West Point cadets were at Fort Monroe, a few visiting the "Nantucket."

Newport News, Virginia

The ship got underway on August 13 and proceeded to Newport News, arriving there the same day, docking at Pier 5 at the shipyard. The cadets accepted an invitation to visit the Mariners Museum. As usual church parties left the ship on Sunday to attend services in town. On the 15th the cadets were taken on a tour of the shipyard of the Newport News Shipbuilding and Dry Dock Company. In the afternoon of the 15th an "At Home" was held in appreciation of the courtesies extended by the shipyard and the Museum. Thirty guests attended, among them being Mr. Homer Ferguson, President of the Shipbuilding Company, and Congressman S. Otis Bland, of the First District of Virginia, Chairman of the Merchant Marine and Fisheries Committee of the House. Lieut. Comdr. Walter K. Queen, U.S.N.R., Commissioner of the Massachusetts Nautical School, visited the ship on August 13.

The "Nantucket" got underway from the dock at Newport News on the 16th under two boilers en route to Halifax, Nova Scotia. On leaving Chesapeake Bay, winds were light and variable with predictions of nothing better so it was decided to proceed via Vineyard and Nantucket Sounds. Vineyard Sound Light Vessel was passed in the evening of the 18th and Pollock Rip Light Vessel was made the following morning. When passing Stonehorse Light Vessel, a heavy fog shut in which lifted after we had passed Pollock Rip Light Vessel. Fog shut in on the evening of August 20 and continued until the 21st when the ship was approaching Seal Island. During the fog the ship was stopped for more than an hour for clearing other vessels. Sambro Light Vessel was made at 8 P. M. on August 21. Man overboard drills were held on August 17, 18 and 19. The afternoon of August 21 came out clear with a bright glow in the northeast giving the appearance of pending fog, so it was decided to enter port at once rather than delay until the morning. A pilot was taken at Chebucto Head and the ship proceeded to Halifax Harbor, anchoring off the city at 10.55 P. M.

Halifax, Nova Scotia

The visit of the "Nantucket" to Halifax was most agreeable. Regular watch liberty was granted cadets to 8 P. M., and extension to 10 P. M. was granted in several cases. On August 25, twenty cadets went fishing to one of the nearby banks in a local fishing vessel, and returned with five hundred pounds of cod, haddock, and pollock. Many visitors came on board during visiting hours, from 1.30 to 4.30 P. M., among them being a group of twenty sea scouts.

There were two Canadian destroyers at the Naval Station, and shortly before the "Nantucket" got underway on August 26, the French gunboat "D'Entrecasteau' entered port and moored at the Naval Station. A boarding call was made on board which was immediately returned.

Leaving Halifax on August 26, the passage to Frenchman's Bay was uneventful except that visibility during Friday night was quite remarkable. A seventeen mile light was sighted at a distance of twenty-five miles, and Brazil Rock Light buoy, a nine mile light, was sighted fifteen miles away. Fog shut in after clearing Seal Island Light early Saturday morning and persisted until the afternoon. The New York Nautical Schoolship "Empire State" was contacted by radio in latitude 37 degrees 39 minutes north, and longitude 57 degrees 25 minutes west bound from LeHavre to New York.

Mt. Desert Rock Light was sighted at 7.50 P. M. on Saturday, and an hour later fog closed in. The ship lay to ten miles east of the Rock. The fog lifted during the mid watch and at 4 A. M. on August 28, the ship proceeded into Frenchman's Bay, anchoring at East Lamoine.

East Lamoine

No liberty was granted cadets at East Lamoine, and examinations were held according to schedule. A considerable number of visitors came on board on Sunday and relatives and friends of cadets were received on board afternoons after 3.30 when examinations for the day were completed. A considerable amount of sailing was had. Cutters and the motor launch were used as running boats.

It was purposed to depart from East Lamoine at 6 A. M. on Saturday, September 3, but fog rolled in and by the time the anchor was aweigh, the fog enveloped the ship. The anchor was let go again, and the ship finally got underway at 8 A. M. Fine weather and a smooth sea prevailed outside, but during the night the south southwest wind increased and the sea built up so that it was necessary to stop the ship, remove the jackasses, unbend the chains, and put in the buckler plates. Upon clearing Cape Cod, wind and sea subsided. The "Nantucket" arrived off Gardiner's Bay at 11 P. M., September 5, and anchored in Greenport Harbor the next morning.

Greenport, Long Island

The usual liberty was granted the cadets. The "Nantucket" left Greenport on September 8 and arrived at New Bedford shortly after daylight the next day. During the night a strong north northeast wind came up, reducing the speed of the ship. The "Nantucket" berthed at the State Pier in New Bedford on September 9.

New Bedford

Many persons visited the "Nantucket" in New Bedford on Saturday and Sunday afternoons, among them being the parents and friends of cadets. The ship left New Bedford on September 12 and anchored in Cataumet Harbor three hours later. The ship left Cataumet on September 18 and proceeded to Boston via the Cape Cod Canal, arriving on September 20.

Commissioners' Inspection

The Commissioners of the school met the ship at Cataumet and sailed with the "Nantucket" en route to Boston. During the trip the Commissioners had an excellent opportunity to inspect all departments of the ship, to observe the work of the cadets on deck and below, and to inspect their work in the following drills: life boat drill, fire drill, abandon ship drill, and collision drill. On account of the thick fog, it was necessary to anchor outside Boston Light. As it was deemed advisable to remain at the anchorage overnight, the Commissioners completed the trip to Boston by motor launch.

Cruise Mileage

	Days	Hours	Minutes	Miles
Steam	23	18	52	3,554
Sail	27	19	48	4,131
Steam and sail	15	07	57	2,916
Total at sea	66	22	37	10,601
In port	61	19	15	
Total for voyage	128	17	52	

Coal Report

The following is a report of coal consumption for the cruise of 1938:

On hand and received	611 tons
Expended	599 tons
Remaining, September 20	12 tons

Items

Moving ship	340 tons
Auxiliaries and lighting	200 tons
Distilling	51 tons
Galleys	8 tons
Total expended	599 tons

The School Record

During the year there have been 179 students on the rolls of the school. They came from 83 cities and towns of the Commonwealth as follows:

Arlington	4	Hingham	1	Quincy	6
Athol	1	Housatonic	1	Randolph	1
Attleboro	1	Hyannis	1	Revere	1
Barnstable	2	Ipswich	1	Rockport	1
Bedford	1	Lawrence	1	Salem	2
Belmont	4	Leominster	1	Shrewsbury	1
Boston	15	Lowell	1	Somerville	5
Braintree	1	Malden	3	Springfield	5
Bridgewater	1	Mansfield	1	Stoughton	1
Brockton	3	Marblehead	3	Swampscott	1
Cambridge	1	Marlboro	2	Taunton	4
Clinton	1	Mattapoisett	1	Uxbridge	1
Cohasset	1	Medford	6	Waban	1
Dalton	1	Melrose	7	Wakefield	4
Dedham	1	Methuen	1	Walpole	1
Edgartown	1	Natick	2	Waltham	4
Everett	2	Neponset	1	Watertown	2
Fall River	2	New Bedford	6	Wenham	1
Falmouth	1	Newton	2	Westfield	2
Florence	1	North Abington	1	Westwood	1
Foxboro	1	Northampton	1	Weymouth	4
Framingham	1	North Andover	1	Wilmington	1
Gloucester	4	North Dartmouth	1	Winchendon	1
Greenfield	1	North Westport	1	Winchester	1
Greenwood	1	Norwood	3	Winthrop	3
Groveland	1	Peabody	2	Wollaston	6
Hanover	1	Pepperell	2	Worcester	4
Haverhill	4	Provincetown	1		
Total					179

The previous education of these students was as follows: high schools, 158; academies, 7; preparatory schools, 6 colleges, 4; technical schools, 4. The average age of the cadets at entrance was 18 years, 5 months. The number of cadets enrolled in the school at present is 118.

Graduation Exercises

The eighty-seventh graduation exercises were held on board the "Nantucket" at the Navy Yard, Charlestown, on Tuesday, April 5, 1938, at 11 A. M. The program was as follows:

Prayer: Capt. Thomas B. Thompson, (Ch.C.), U.S.N., Navy Yard, Charlestown.

Presiding Officer: Lieut. Comdr. Walter K. Queen, Commissioner, Massachusetts Nautical School.

Address: Hon. Charles F. Hurley, Governor of the Commonwealth.

Address: Mr. J. F. Paige, President of the Propellor Club, Boston.

Address: Rear Admiral Walter R. Gherardi, U.S.N., Commandant of the First Naval District.

Prize awarded by the Boston Marine Society to the graduate excelling in those qualities making for the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership. Presented by Capt. George E. Eaton, Class of 1895, Superintendent of the Second Lighthouse District, to Paul F. Duffee of Neponset.

Prizes awarded by Mr. Arthur M. Wiggin of Brookline to the graduates in the Seamanship Class and in the Engineering Class making the greatest improvement in all around work during the past year. Presented by Mr. Wiggin to Johannes A. Johnson of Norwood, Seamanship Class; Theodore T. Lingham of South Braintree, Engineering Class.

Prize awarded by The Society of the War of 1812 to the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States. Presented by Col. Frederic Gilbert Bauer, President of the Society, to Raymond V. Pierszalowski of Athol.

Prize awarded by the Massachusetts State Society, United States Daughters of 1812, to the graduate in the engineering division standing highest in engineering and electricity. Presented by Mrs. Milburn Edgar Yeager, President, to Kenneth G. Smith of Springfield.

Prize awarded by Capt. Frederick L. Walker to the graduate standing highest in Seamanship. Presented by Captain Walker, class of 1905, to David L. Edwards of Brighton.

Prize awarded by Mr. William H. Dimick, Secretary of the Board, to the graduate receiving the highest final average. Presented by Mr. Dimick, to Kenneth G. Smith of Springfield.

Presentation of Bibles given by the Massachusetts Bible Society: Chaplain Thompson.

Presentation of Diplomas: Dr. James G. Reardon, Commissioner of Education, Massachusetts Department of Education.

The eighty-eighth graduation exercises were held on board the "Nan-

tucket" at the Navy Yard, Charlestown, on Tuesday, September 27, 1938, at 11 A. M.

Prayer: Capt. Thomas B. Thompson, (Ch.C.), U. S. N., Navy Yard, Charlestown.

Presiding Officer: Mr. Clarence E. Perkins, Chairman of the Commissioners of the School.

Address: Rear Admiral William T. Tarrant, U.S.N., Commandant of the First Naval District.

Prize awarded by the late Irving L. Wood to the graduate having the highest mark in Seamanship and Navigation for the year. Presented by Mr. Theodore L. Storer, Commissioner of the School, to John H. Lancaster of Brockton.

Prize awarded by the Boston Marine Society to the graduate excelling in those qualities making for the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership. Presented by Capt. Joseph I. Kemp, Secretary, Boston Marine Society, to William J. Ceppi of Dorchester.

Prizes awarded by Mr. Arthur M. Wiggin of Brookline to the graduates in the Seamanship Class and in the Engineering Class making the greatest improvement in all around work during the past year. Presented by Mr. Wiggin to Robert H. Macomber of Boston, Seamanship Class; Wendell E. Bent of South Peabody, Engineering Class.

Prize awarded by The Society of the War of 1812 to the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States. Presented by Col. Frederic Gilbert Bauer, President of the Society, to Edwin S. Borden of North Westport.

Prize awarded by the Massachusetts State Society, United States Daughters of 1812, to the graduate in the engineering division standing highest in engineering and electricity. Presented by Mrs. Milburn Edgar Yeager, President of the Society, to John L. DuMoulin of Dorchester.

Prize awarded by Mr. William H. Dimick, Secretary of the Board, to the graduate receiving the highest final average. Presented by Mr. Dimick, to John H. Lancaster of Brockton.

Prize awarded by Capt. Frederick S. Walker, United States Local Inspector of Hulls, to the graduate standing highest in Seamanship. Presented by Captain Walker, to John H. Lancaster of Brockton.

Presentation of Bibles given by the Massachusetts Bible Society: Chaplain Thompson.

Presentation of Diplomas: Capt. Clarence A. Abele, U.S.N., Superintendent of the School.

Officers and Instructors

Clarence A. Abele, Captain, U.S.N. (retired), Superintendent.
Robert M. Gray, Lieutenant, U.S.N.R. (graduate M.N.S.) Executive Officer.
John W. Thompson, (graduate M.N.S.), Navigator.
Richard T. Rounds, (graduate M.N.S.), Watch Officer.

Louis A. Woodland, (graduate M.N.S.), Watch Officer.
Ervin L. Kelley, Lieut.-Comdr., U.S.N.R. (graduate M.N.S.), Chief Marine Engineer.
Theodore P. Ebsary, (graduate M.N.S.), Assistant Marine Engineer.
John E. Wright, Instructor in Mathematics.
Charles M. Taylor, Instructor in Mechanical Drawing.
Ashbel C. Williams, M.D., Surgeon, Summer Term.
Ashton Graybiel, M.D., Surgeon, Winter Term.
Charles Parker, Paymaster.

Cadet Officers of the Massachusetts Nautical School

Summer Term

Navigation

Ian R. Scott	*Senior Cadet Officer*
William J. Ceppi	*Junior Cadet Officer*

Engineering

John L. DuMoulin	*Senior Cadet Engineer Officer*
Wendell E. Bent	*Junior Cadet Engineer Officer*

Winter Term, 1938-39

Navigation

Alden M. Tibbetts	*Senior Cadet Officer*
Milton H. Shaw	*Junior Cadet Officer*

Engineering

Harold B. Bergenheim	*Senior Cadet Engineer Officer*
Francis D. Gilmartin	*Junior Cadet Engineer Officer*

Cadets Admitted, Graduated, and Honorably Discharged, from 1893 to 1938, Inclusive

	Admitted	Graduated			Honorably discharged	Withdrawn, dismissed, dropped	Number connected with the school
		Seamanship Class	Engineer Class	Totals			
1893	141	—	—	—	29	24	138
1894	63	—	—	—	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	138
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	43	19	9	188
1923	77	27	16	50	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
1929	71	23	29	52	12	7	189
1930	62	33	19	52	8	3	180
1931	74	38	19	57	6	9	191
1932	50	23	22	45	2	3	169
1933	65	40	30	70	5	1	184
1934	55	20	20	40	4	1	163
1935	68	40	22	62	7	2	186
1936	58	26	19	45	4	4	172
1937	61	36	24	60	1	—	180
1938	60	36	21	57	3	1	179
	3,233	1,007	855	1,862	752	501	

Membership of the School

Graduating Class, April, 1938

Seamanship Division

Name	*Residence*
*Duffee, Paul F.	Neponset
Howe, Norman, Jr.	Dalton
*Cook, George C.	Quincy
*Edwards, David L.	Brighton
Austin, Milton L.	Attleboro
Garland, Nelson F.	Bedford
Murphy, Francis J.	Medford
Johnson, Johannes A.	Norwood
Ford, Francis J., Jr.	Worcester
Achimore, A. Paul	Medford
Veeder, Richard W.	Gloucester
Moore, Albert F., Jr.	Melrose
Grime, Frank, Jr.	New Bedford
Donohue, Leo F.	Malden
Ormsby, Albert R.	Greenwood
Cookson, William	West Newton
Deacon, Archie K.	Gloucester
Full, William A.	Marblehead

Engineering Division

*Smith, Kenneth G.	Springfield
*Pierszalowski, Raymond V.	Athol
Gray, Floyd E.	Rockport
Berwick, Thorndike J.	Methuen
Johnson, C. H. Chester	Norwood
Lingham, Theodore T.	South Braintree
Kaufman, Leon F.	Roxbury
Crown, Roger A.	Wollaston
Slayton, Wendell D.	Waltham
Bienia, John P.	New Bedford
Cass, Herman J., Jr.	North Andover
Arnold, William B., 2nd	North Abington
Neill, John R. J.	Springfield
McLean, Phillips B.	Bridgewater

Graduating Class, September, 1938

Seamanship Division

*Lancaster, John H.	Brockton
*McKenna, John P.	Dorchester
*Tobey, Robert D.	Gloucester
Ceppi, William J.	Dorchester
Cooper, Ralph H.	Watertown
Albatys, Edward J.	Housatonic
*Gilman, Roger B.	New Bedford
Scott, Ian R.	Medford
Millar, Harold F.	Wakefield
McLeod, Douglas S.	Springfield

(*Received 85 per cent, or over, of the Academic Multiple and entitled to wear gold star)

Hutchinson, Norman R.	Salem
Macomber, Robert H.	Boston
Morris, Van H.	Melrose
Nolan, Joseph W.	Arlington
Luken, Roy E., Jr.	Wakefield
Slavin, Philip M.	Winchendon
DeMontier, Leon R.	Melrose
Howe, E. Hibbard	Quincy

Engineering Division

DuMoulin, John L.	Dorchester
Borden, Edwin S.	North Westport
Trowt, George B.	Wenham
Bent, Wendell E.	South Peabody
Marzullo, John S.	Everett
Mortimer, Ernest W., Jr.	Edgartown
Studley, Liba L.	Hingham Center

Class to Graduate, April, 1939

Seamanship Division

*Tibbetts, Alden M.	Melrose
*Bamford, Robert C.	Ipswich
*Allen, Donald G.	Wollaston
*Alther, George W., Jr.	Melrose
Burke, Thomas E.	Allston
Hayward, Loring F.	Taunton
*Smith, Robert H.	Wollaston
Brown, Norman M.	Taunton
Shaw, Milton H.	New Bedford
Watts, Bernard A.	Malden
Judge, William E., Jr.	West Roxbury
Romanos, Arthur R.	Fall River
Shea, Bernard M.	Dorchester
Steward, Roger A.	Winthrop
Howe, Frank C., Jr.	Wollaston
Carleton, William H.	Hanover
Sheehan, William F., Jr.	Winchester
Hallbourg, Walter T.	East Pepperell

Engineering Division

*Bergenheim, Harold B.	Dorchester
Gilmartin, Francis D.	Walpole
Barry, Edwin F.	Everett
Hall, Robert E.	Winthrop
Hennigan, Timothy J., Jr.	Somerville
Johnson, Freeman K.	Waltham
Walukiewicz, Joseph R. (Volick)	Cambridge
Wayman, Richard P.	Falmouth
Bell, Charles W.	Waltham
Vigue, George D.	Framingham
Wheble, Edwin R.	Quincy
Champagne, Joseph R.	Haverhill

(*Received 85 per cent, or over, of the Academic Multiple and entitled to wear gold star)

Laforet, Louis F.	Waltham
Geehan, James J., Jr.	Marlboro
Johnson, Ralph F.	Somerville

Class to Graduate, September, 1939

Seamanship Division

Lodigiani, Edward C.	Springfield
Danielson, Bert	Watertown
Gilleland, John E., Jr.	Medford
Person, Kurt G. R.	Worcester
Eldridge, Kenneth	Marblehead
Montgomery, William A.	Belmont
Burkett, Leon A., Jr.	Stoughton
Hodges, Sidney B.	Dedham
Chace, Robert M.	N. Dartmouth
Schortmann, Walter E.	Springfield
Boland, Kells M.	Melrose
Wilder, Albert L.	N. Weymouth
Brown, Earl S.	Marlboro
Houghton, George A.	East Pepperell
Schroeder, William H. E.	Newton
Wilder, Arthur T.	N. Weymouth
Mason, Wallace R.	Leominster
Blaher, Lawrence J.	Hyde Park

Engineering Division

Harrington, George E.	Haverhill
George, Harold F.	West Barnstable
Wyman, Arthur R.	Uxbridge
Lazott, Harlow A.	Worcester
McCabe, Hugh T.	Somerville
Greene, Paul	Dorchester
Redmayne, Richard B.	Norwood
Bosche, Frank N.	East Weymouth

Class to Graduate, April 1940

Malone, Edgar S., Jr.	Wakefield
FitzGerald, Donald J.	Westfield
Ohlin, Stanley N.	Belmont
Christianson, Frederick R.	Arlington
Collins, Atwell G.	Quincy
Christiansen, Arnold R.	Arlington
Sweeney, Newell	Brockton
Breen, Wilfred P.	Medford
Congdon, Bernard R.	Foxboro
Digiacomo, Dominic	Natick
Roy, Paul T.	Worcester
Hartford, Arnold E.	Haverhill
Bryan, Forrest L.	Westfield
Nowell, Burton F., Jr.	Melrose
DesChamps, Arthur J.	Natick
Birmingham, Raymond F.	Wollaston
Wirtanen, Martin E.	West Barnstable

Folsom, Samuel B.	Peabody
Lavellee, Edward J.	Clinton
Howes, Wallace A., Jr.	Northampton
Wood, Gordon A.	Groveland
Lang, Frank N.	Swampscott
Massey, Francis A., Jr.	Norwood
Carl, Edward F.	Roslindale
Andrews, James M., Jr.	Revere
McLoud, Charles R.	Gloucester
Bliven, N. Curtis	Malden
Scudder, Robert F.	Hyannis
Powell, Jack R.	New Bedford
Wilson, James W.	Somerville

Class to Graduate, September 1940

(Alphabetically arranged)

Barrows, Charles J.	Wakefield
Cates, Robert P.	Winthrop
Christophers, Edward A.	Fall River
Cote, Oliver P.	Lowell
Curtice, Reginald M.	Belmont
Dee, Donald W.	Taunton
Dickie, Rodman L., Jr.	Arlington
Doell, Charles H.	West Roxbury
Eaton, Lewis S.	Provincetown
Fisher, Kenneth	New Bedford
Foster, Walter S.	Wollaston
Hiller, Emerson H.	Mattapoisett
Jennings, Norman V.	Somerville
Jordan, James O., 3rd	Belmont
LaBranche, Joseph P.	Haverhill
Melzar, Frederic P.	Wilmington
Mignacca, Joseph K. L.	Shrewsbury
Monk, Herbert A.	S. Weymouth
Nyhan, Frederick P.	Lawrence
O'Brien, Paul D.	Taunton
Pattangall, S. Lincoln, Jr.	Brockton
Pendleton, John S., Jr.	Florence
Ranen, Leo	Salem
Smith, Rodger S.	Greenfield
Smith, Warren N.	Marblehead
Sprague, F. Lester, Jr.	Quincy
Van Gemert, Lee	North Quincy
Wells, Robert B.	Medford
Wood, Arthur O., Jr.	Cohasset

Financial Statement

Appropriations

The appropriations for the school for the fiscal year 1938, from December 1, 1937, to November 30, 1938, are accounted for as follows:

Expense of Schoolship	Appropriations	Expenditures
Personal Services	$47,000.00	$47,400.69
Travel, transportation and office expenses	1,090.00	1,178.25
Food	24,600.00	22,473.97
Furnishings and household supplies	975.00	1,237.79
Medical and general care	1,335.00	998.00
Heat, light, power, etc.	8,000.00	7,250.49
Repairs, ordinary	1,950.00	1,799.97
Miscellaneous	2,700.00	2,073.20
Brought forward from 1937 appropriation	138.36	
	$87,788.36	$84,412.36
Unexpended balance		*3,376.00
	$87,788.36	$87,788.36
Expenses of Commission		
Office supplies and equipment	$230.00	$219.35
Traveling and other services and expenses	1,870.00	1,825.38
	$2,100.00	$2,044.73
Unexpended balance		** 55.27
	$2,100.00	$2,100.00
Personal Services		
Commissioners' office	$5,148.00	$5,148.00

* Includes $1,329.64 for 1938 invoices not paid until 1939.
** Includes $52.16 for 1938 invoices not paid until 1939.

Income

Received from Navy Department	$25,000.00
Received from tuition and other fees	12,000.99
Other Income	40.01
	$37,041.00

Financial Statement Verified.

Approved: GEO. E. MURPHY,
Comptroller.

Respectfully submitted,
CLARENCE E. PERKINS, *Chairman*
THEODORE L. STORER
WALTER K. QUEEN
Commissioners.

Public Document No. 42

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THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF EDUCATION

ANNUAL REPORT

OF

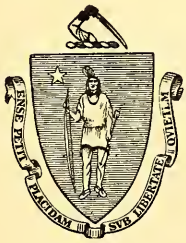
THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1939.



MASSACHUSETTS NAUTICAL SCHOOL
100 NASHUA STREET, BOSTON

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE.
800—3-'40. D—1069.

The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION

WALTER F. DOWNEY, *Commissioner of Education*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL

100 NASHUA STREET, BOSTON

CLARENCE E. PERKINS, *Chairman*
THEODORE L. STORER
WALTER K. QUEEN

WILLIAM H. DIMICK, *Secretary*

REPORT OF THE COMMISSIONERS

To the Commissioner of Education:

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1939, the forty-eighth annual report.

SCHOOL CALENDAR, 1939

Spring entrance examinations	March 30, 31, April 1
Spring graduation	April 4
Winter term ended	April 4
New class reported	April 20
Leave, 1st section	April 4 to 18
Leave, 2nd section	April 18 to May 2
Summer term commenced	May 2
"Nantucket" sailed from Boston	May 13
"Nantucket" arrived at Boston	September 18
Autumn entrance examinations	September 21, 22, 23
Autumn graduation	September 26
Summer term ended	September 26
New class reported	October 23
Leave, 1st section	September 29 to October 13
Leave, 2nd section	October 13 to 27
Winter term commenced	October 27

ESTABLISHMENT AND PURPOSE OF THE SCHOOL

In 1874 Congress passed an Act to encourage the establishment of nautical schools. The Act authorized the Secretary of the Navy to furnish a suitable vessel, with all her equipment, to certain States for use in maintaining a nautical school. Massachusetts was one of the States included in the Act.

The Massachusetts Nautical School was established by the Legislature in 1891. As the Massachusetts Agricultural College is educating young men for agricultural pursuits, and the textile schools at Lowell, Fall River, and New Bedford, are fitting for work in the textile industry, the Massachusetts Nautical School is providing a theoretical and practical education for young men who desire to engage in the shipping industry, an industry which has had an important part in the work of the Commonwealth since the earliest Colonial days.

The first cadets were received in the School in April 1893. Applicants for admission to the school are limited to young men, between seventeen years and their twentieth birthday, who are residents of Massachusetts. The entrance examinations held in March and September each year are strictly competitive. Candidates must be free from physical defects especially as to vision, hearing and speech. The school accomodates 118 cadets.

The total cost for the first year is $300 and for the second year $150. The course covers a period of two years. During the winter term the schoolship remains in Boston, being berthed at the Navy Yard, Charlestown. During the summer term, a practice cruise is made lasting about five months. A catalogue and application blanks can be had at the office of the Commissioners, Massachusetts Nautical School, 100 Nashua St., Boston.

The Winter Term

With the winter term of 1938-39 was inaugurated a course in Naval Science. This is a lecture course given by naval officers attached to the First Naval District and covering about eighty hours of lecture time. The Navy Department desired to have this course established in the school in consideration of the assistance rendered the school by the Department, and for the purpose of preparing cadets for Naval Reserve duties.

The course includes lectures in Gunnery, Navy Regulations, Naval Law, Elementary Tactics and Maneuvering, Communications, Ship Drills, International Law, and Types and Characteristics of Naval Ships and Aircraft.

Cadets passing the required physical examination are appointed Merchant Marine Cadets, United States Naval Reserve. American merchant ships enrolled in the Naval Reserve are required to be officered by Naval Reserve Officers.

Cadets, with few exceptions, are enrolled in the Naval Reserve; and all cadets, whether or not enrolled, are required to take the course. The course constitutes part of the school curricula and is assigned weights in the same manner as other subjects. It is spread over the two school years. However, as particularly desired by the Navy Department, the classes graduating in 1939 were given the full course of instruction.

On April 24 the "Nantucket" was moved from Pier 1 to the Marine Railway, Navy Yard, for the usual spring overhaul. The necessary repairs were made in the seamanship and engineering departments by the Navy Department without charge to the Commonwealth. The cost of repairs was as follows: construction and repair $13,930; engineering $2,483; navigation $187; total $16,600.

The Summer Term

A European cruise, omitted last year, was made this year. The ship visited Plymouth, Antwerp, London, LeHavre, and Libson, making the usual calls at the Azores and Madeira Islands. At Plymouth, England, a special program was provided for the officers and cadets covering the five days the ship was in port. The itinerary included a stay of four days at New Rochelle, New York, in order to give the cadets an opportunity to visit the World's Fair.

A complete report on the practice cruise will be found on page 6.

Conferences With Navy Department

Acting upon a suggestion of the Bureau of Navigation, Navy Department, representatives from the four State nautical schools have held conferences with the Navy Department during the past year.

The Commissioners believe these conferences will be helpful in strengthening, improving and coordinating the work of the State nautical schools, and in providing suitable and adequate equipment.

Personnel

Theodore L. Storer, Cambridge, was re-appointed a Commissioner of the school for a period of three years from July 1, 1939.

On November 30, Mr. Theodore P. Ebsary, class of 1932, resigned as Assistant Marine Engineer.

Mr. John R. Hickey, class of 1934, was appointed Assistant Marine Engineer, to take effect December 1, 1939. Mr. Hickey holds a chief engineer's license and at the time of his appointment, was first assistant engineer on board the S. S. "Chincha" of the American South African Line.

On April 3, 1939 Mr. Charles W. Swett, Ship's Carpenter, was retired on account of ill health after a service of sixteen years.

Graduates of the School in 1939

The following is a list of the fifty-nine graduates of 1939, the names of their home towns, and their first employment:

Name	*Residence*	*Vessel*	*Service*
Donald G. Allen	Wollaston	S. S. Steel Voyager	Isthmian Line
George W. Alther, Jr.	Melrose	At sea	Eastern S. S. Lines
Robert C. Bamford	Ipswich	S. S. Veragua	United Fruit Co.
Edwin F. Barry	Everett	At sea	Standard Oil Co.
Charles W. Bell	Waltham	S. S. Argentine	Moore & McCormack Co.
Harold B. Bergenheim	Dorchester	S. S. Pipestone County	American-France Line
Lawrence J. Blaher	Hyde Park	Cadet officer	Grace Line
Kells M. Boland	Melrose	S. S. Steel Worker	Isthmian Line
Frank N. Bosche	E. Weymouth	S. S. Unicoi	U. S. Maritime Commission
Earl S. Brown	Marlboro	S. S. Steel Maker	Isthmian Line
Norman M. Brown	Taunton	At sea	Cities Service Co.
Thomas E. Burke	Allston	S. S. Macabi	United Fruit Co.
Leon A. Burkett, Jr.	Stoughton	S. S. Birmingham City	Isthmian Line
William H. Carleton	Hanover	At sea	Cities Service Co.
Robert M. Chace	N. Dartmouth	S. S. Steel Engineer	Isthmian Line
Joseph R. Champagne	Haverhill	S. S. Brazil	Moore & McCormack Co.
Bert Danielson	Watertown	S. S. Guide	
Kenneth Eldridge	Marblehead	S. S. R. P. Resor	Standard Oil Co.
James J. Geehan, Jr.	Marlboro	S. S. Flying Cloud	
Harold F. George	W. Barnstable	S. S. Mormacmar	Moore & McCormack Co.
John E. Gilleland, Jr.	Medford	S. S. Lydonia	Coast & Geodetic Survey
Francis D. Gilmartin	Walpole	S. S. Santa Maria	Grace Line
Paul Greene	Dorchester	S. S. President Van Buren	United States Lines
Robert E. Hall	Winthrop	S. S. Chiriqui	United Fruit Co.
Walter T. Hallbourg	E. Pepperell	At sea	Socony Vacuum Co.
George E. Harrington	Haverhill	S. S. Nightingale	Grace Line
Loring F. Hayward	Taunton	S. S. Empire	Cities Service Co.
Timothy J. Hennigan, Jr.	Somerville	S. S. Santa Lucia	Grace Line
Sidney B. Hodges	Dedham	At sea	
George A. Houghton	E. Pepperell	S. S. Guide	
Frank C. Howe, Jr.	Wollaston	At sea	Cities Service Co.
Freeman K. Johnson	Waltham	S. S. Markay	
Ralph F. Johnson	Somerville	S. S. Hapgood	Cities Service Co.
William E. Judge, Jr.	West Roxbury	S. S. Lydonia	Coast & Geodetic Survey
Louis F. Laforet	Waltham	S. S. Crown City	American Pioneer Line
Harlow A. Lazott	Worcester	S. S. Santa Inez	Grace Line
Edward C. Lodigiani	Springfield	S. S. Lydonia	Coast & Geodetic Survey
Wallace R. Mason	Leominster		
Hugh T. McCabe	Somerville	S. S. Delsud	Mississippi Shipping Co.
William A. Montgomery	Belmont	Third Officer	Barber Line
Kurt G. R. Person	Marblehead	S. S. R. P. Resor	Standard Oil Co.
Richard B. Redmayne	Norwood	At sea	
Arthur R. Romanos	Fall River	At sea	Isthmian Line
Walter E. Schortmann	Springfield	S. S. Lydonia	Coast & Geodetic Survey
William H. E. Schroeder	Newton	S. S. North Star	Byrd Antarctic Expedition
Milton H. Shaw	New Bedford	At sea	Cities Service Co.
Bernard M. Shea	Dorchester	At sea	Cities Service Co.
William F. Sheehan, Jr.	Winchester	S. S. Exminster	American Export Line
Robert H. Smith	Wollaston	At sea	Isthmian Line
Roger A. Steward	Winthrop	S. S. W. C. Teagle	Standard Oil Co.
Alden M. Tibbetts	Melrose	S. S. Santa Rosa	Grace Line
George D. Vigue	Framingham	S. S. Santa Inez	Grace Line
Joseph R. Volick	Cambridge	S. S. Santa Clara	Grace Line
Bernard A. Watts	Malden	S. S. W. C. Teagle	Standard Oil Co.
Richard P. Wayman	Falmouth	S. S. Wellhart	Wellhart S. S. Co.
Edwin R. Wheble	Quincy	S. S. Knoxville City	Isthmian Line
Albert L. Wilder	N. Weymouth	S. S. Dean Emery	Standard Oil Co.
Arthur T. Wilder	N. Weymouth	At sea	Standard Oil Co.
Arthur R. Wyman	Uxbridge	S. S. Argentina	Moore & McCormack Co.

Detailed Report on the Practice Cruise

Schoolship "Nantucket"—Itinerary 1939

Left	*Arrived at—*
Boston, May 13	Vineyard Haven, May 14
Vineyard Haven, May 18	Boston, May 18
Boston, May 25	Provincetown, May 26
Provincetown, June 1	Ponta Delgada, Azores, June 13
Ponta Delgada, June 17	Plymouth, England, June 26
Plymouth, June 30	Antwerp, Belgium, July 2
Antwerp July 8	London, England, July 9
London, July 14	Le Havre, France, July 15
Le Havre, July 21	Lisbon, Portugal, July 27
Lisbon, August 1	Funchal, Madeira, August 4
Funchal, August 9	Gardiner's Bay, August 28
Gardiner's Bay, September 1	New London, September 1
New London, September 6	New Rochelle, September 7
New Rochelle, September 11	Mattapoisett, September 12
Mattapoisett, September 17	Boston, September 18

The "Nantucket" departed from the Navy Yard, Boston, at 2:30 P. M., Saturday, May 13, in accordance with schedule. Many relatives and friends of cadets were on hand to see the ship sail. Stone Horse Channel was entered at 4:40 A. M. on May 14, and the ship was anchored in Vineyard Haven, about a half mile from boat landing, at 9 A. M. the same day. Fine weather and a smooth sea prevailed throughout the passage. Fore and aft sails were carried for more than six hours. All machinery functioned well. The cadets carried on in a commendable manner.

The "Nantucket" was scheduled to leave Vineyard Haven for Washington, D. C., on May 18. A damaged windlass made it necessary to return to Boston for repairs where the ship arrived on May 18.

The "Nantucket" left Boston on May 25. After testing anchor windlass in President's Roads, the "Nantucket" proceeded to Boston Lightship and calibrated the radio direction finder and swung ship for compass deviation. Upon completion of the calibration, the course was set for Cape Cod. The ship anchored in Provincetown at 12:28, May 26.

Provincetown

The stay at Provincetown was very beneficial in affording opportunity for sail and general drills. Regular watch liberty was granted cadets from 4:30 P. M. to 8 P. M., with extension to 12 midnight on the 29th and 30th of May to those attending the dances given by the High School and by the American Legion on those respective evenings. Pulling boats were used entirely as running boats, the motor launch not being hoisted out. As the ship was anchored more than half a mile from the boat landing and as at times the wind blew fresh, and at other times there was a thick fog, especially good boating practice was had. Boats under sail were out daily.

Upon arrival the Superintendent of the school called on the Chairman of the Board of Selectmen. On his request the Superintendent agreed to enter a detachment from the ship in the Memorial Day parade. On Monday, the 29th, a cadet baseball team played the local high school team, but rain stopped the game at the 3rd inning, and the game was completed on the 31st, the high school winning 6 to 5 in a closely contested game.

The "Empire State", schoolship of the New York Merchant Marine Academy, anchored in port in the early morning of the 29th. The Commanding Officer (ship's executive officer) called on the Superintendent of the School, which call was returned by the Superintendent.

A platoon of four squads, with color guard and music, totalling about 50 cadets was entered in the Memorial Day parade. The EMPIRE STATE sent a similar

detachment. Both contingents made good showings. Wreaths were laid at the cemetery, the Wharf, and the memorial monument at the Town Hall. At the wharf ceremonies, the "Nantucket" squad fired three volleys as the wreath was thrown into the water. Memorial observance was held on board at noon. The crew was mustered aft, three volleys fired, and taps sounded. Church service was held on board on Sunday. A Catholic church party attended service on shore.

The "Nantucket" left Provincetown on June 1. The weather was fine with a fresh N.E. wind. Upon rounding Peaked Hill Bar fore and aft sails were set and carried until after dark. The weather continued fine with light N.E. to East wind, but the barometer began to fall on Sunday, the 4th. Numerous vessels were sighted. They were keeping to the southward of the usual steamer track due to icebergs close in the vicinity of the eastbound steamer lane. A radiogram of greeting was received from a graduate of the school in the class of September 1937, third officer on board the S. S. "American Merchant". Many whales were sighted. The steamer "Phaeax" was passed close aboard and was advised by bridge signal that Mackay Radio had been calling her for several days.

On the 5th the wind shifted to S.S.W. and freshened. The ship was put under sail and the engine uncoupled at 7:28 A. M. The wind continued to freshen, and at 6:30 P.M. topgallantsails were taken in, and later the head of the spanker was hauled down. For three consecutive hours the ship logged over 10 knots per hour. The ship rolled up to 25°. The barometer continued to fall until 10:00 A. M. of the 6th and the wind reached force 8 from the S.W. by 1:00 P. M., the ship rolling up to 30°, riding easily, but shipping some water over the rail. At 2:40 P. M. the bolt rope of the maintopsail gave way at the port clewiron causing a ripping of the sail, which was at once taken in and unbent. Later in the afternoon the weather began to clear.

A reserve maintopsail was bent and set in the forenoon of the 7th. The wind continued fresh until 5:00 P. M. when it began to diminish, until by 9:00 P.M., it began to give evidence of passing out. Steam was ordered for 6:00 A. M. of the 8th, but by 5:00 A.M., the wind again freshened and the ship was continued under sail. In the evening the wind began to haul to the eastward resulting in the ship making some northings, so sail was furled and the engine was coupled up at 7:40 A.M. of the 9th. At 5:00 P. M. of this day the "Yankee Clipper" was contacted bound for New York on a course taking her 100 miles south of us. The clipper was again contacted on the 11th 145 miles to the northward and westward headed for Horta. On both occasions we gave our position to the clipper.

Drills and studies were conducted according to schedule except when weather conditions intervened, and when preparing for entering port. Church services were held on Sundays and were well attended.

The Island of Flores was sighted in the early morning of the 12th; and Fayal was sighted in the early afternoon and was passed in the first part of the night. San Miguel Island was raised in the morning of the 13th.

Man overboard drills were held as follows:

June 2—Boat in water 1 minute 10 seconds—Buoy picked up 5 m. 15 s.—Boat hoisted 11 m. 25 s.

June 9—(starboard) Boat in water 1 minute 0 seconds—Buoy picked up 3 m. 7 s. —Boat hoisted 9 m. 15 s.

June 9—(port) Boat in water 0 minutes 55 seconds—Buoy picked up 2 m. 49 s. —Boat hoisted 10 m. 35 s.

June 12—Boat in water 0 minutes 45 seconds—Buoy picked up 3 m. 20 s.—Boat hoisted 8 m. 55 s.

Ponta Delgada

The "Nantucket" arrived at Ponta Delgada on June 13, and was moored bow and stern. There were present in the port the Portuguese hydrographic survey ship "Carvalho Araujo" and the Spanish cruiser "Mar Cantabrico". The Consul came on board informally before mooring had been completed and pratique had been granted.

The usual watch liberty was granted cadets, liberty expiring at 8 P. M. A party of cadets visited Furnass by chartered bus. Pulling boats were used exclusively as running boats, the motor sailer not being hoisted out. Boats were exercised under sail daily.

The weather at Ponta Delgada during our stay was fine. Noonday temperatures were as follows: June 14th, 69°; 15th, 69°; 16th, 71°; 17th, 72°. It was decided to leave on the 17th as the 18th was a Sunday. Upon rounding the east end of San Miguel a north west swell was encountered causing considerable rolling. Fore and aft sails, however, eased the ship considerably. At midnight of the 20th the barometer began to fall, and in the early morning of the 21st, the wind hauled more ahead. The wind increased until after noon of the 22nd it was blowing force 7 from N.N.E. and, although fore and aft sails were carried, the ship labored and much spray came over. The wind then gradually moderated, until midnight of the 23rd it was blowing force 4. The barometer continued to fall until the morning of the 24th. We were not far from the storm center which was to the eastward of us. During the storm the day's runs were: 21st, 118; 22nd, 129; 23rd, 122; 24th, 133; 25th, 120.

Man overboard drills were held as follows:

June 19th—Boat in water 0 minutes 45 seconds—Buoy Picked up 2 m. 55 s.—Boat hoisted 10 m. 40 s.

June 20th—Boat in water 0 minutes 35 seconds—Buoy picked up 2 m. 40 s.—Boat hoisted 7 m. 50 s.

June 21st—Boat in water 0 minutes 40 seconds—Buoy picked up 2 m. 15 s.—Boat hoisted 6 m. 20 s.

June 26th—Boat in water 1 minute 5 seconds——Buoy picked up 3 m. 50 s.—Boat hoisted 10 m. 40 s.

The barometer began to rise in the forenoon of the 25th; and towards noon the weather cleared and, as the swell decreased, the ship picked up speed. The Lizard was sighted in the early morning of the 26th and was passed abeam at 10 A. M. The "Nantucket" arrived at Plymouth and moored close off the Hoe, in the most desirable Navy berth, at 3:45 P. M. Entering the harbor, the Harbor Master (Commander Royal Navy) came on board and offered any desired assistance. While mooring, a boarding officer came on board, extended the Commander in Chief's compliments, and acquainted me with the program prepared for our visit. The Consul came on board shortly afterwards.

Plymouth

The visit to Plymouth was much enjoyed by the cadets and officers. The Consul, Mr. Henry M. Wolcott, was very kind, considerate, and helpful. The "Nantucket" was the first government vessel to visit Plymouth since he had been consul there and he was very appreciative of our visit.

A special program was provided for the officers and cadets in connection with the visit of the ship to Plymouth, including a reception by the United States Consul, a tour of Dartmoor, a visit to the Western Royal Yacht Club, and sailing races. A baseball field was made available to the cadets and free transportation was given them on buses and trams.

The motor launch was used principally as running boat and for handling liberty parties. Pulling boats were also used. There was a little boat sailing.

The ships of the Home Fleet, based on Davenport, returned for a month's shore leave for the personnel on the 27th. The "Nantucket" was painted on the morning of the 27th and presented a good appearance for the visit. The weather during our stay in Plymouth was extremely changeable, with intermittent rain and sunshine. Noonday temperatures were as follows: June 27th, 58° 28th, 59°; 29th, 61°; and 30th, 60°.

The "Nantucket" departed from Plymouth on the 30th. The weather was fine with a gentle westerly breeze. In the forenoon of July 1st the S. S. "American Banker" passed heading to the westward, when radiogram of greeting was received from a

graduate of the school in the class of September 1938, 4th officer of that vessel. Due to the fair wind a better speed was made than anticipated so that for the entire run to the Scheldt a favorable current was held; so, while the consul at Antwerp had been advised that the "Nantucket" would arrive at the mouth of the Scheldt at 9 P. M., the ship arrived there at 12:30 P. M. At Flushing the Scheldt River pilot came on board, and at Royer Sluice, the Dock Pilot replaced him. It was necessary to lower the out-hanging boats before passing through the locks; and they followed the ship under oars to the berth in Willem Dock, a distance of about a half mile. The berth was in one of the oldest and smallest docks, occupied mostly by barges, but it was near the center of the city and most convenient.

Antwerp

The visit of the "Nantucket" to Antwerp was interesting and enjoyable. The berth of the ship, being close to the city, the points of interest were readily accessible. The public museums and points of interest were open gratis to the cadets. The port of Antwerp has the greatest amount of shipping of any on the continent of Europe; and the cadets were afforded opportunity to observe the operation of a great commercial port.

Fifty-seven cadets and seven officers attended the Ambassador's Fourth of July reception, and there were perhaps one hundred other guests. Several complimentary comments were made on the good appearance and manly conduct of the cadets. The Ambassador also invited the cadets to visit on Friday his yacht, the "Sea Cloud", a four masted diesel auxiliary bark. Friday was coaling day; but later the invitation was extended for Thursday. In the meantime a trip to Louvain had been organized for Thursday, so that only 18 cadets visited the "Sea Cloud". They were shown throughout the ship and served tea on board. The master of the "Sea Cloud" told the Superintendent that he had served on board the Massachusetts Nautical School-ship "Enterprise" in 1902. A priest from Westmalle Abbey extended an invitation for a group of cadets to visit the Abbey. Thirty cadets formed the party which, after a tour of points of interest, had tea at the Abbey.

Much apprehension was felt in Belgium as to what the future would bring forth. Many American business men had sent home their wives and families. The Boatswain of the "Nantucket", Mr. Brenner, was given leave to visit his home in the Rhineland, and he stated on his return that the people in that section fully believed that war would come after the crops had been harvested.

Generally fair weather prevailed during the visit. Noonday temperatures were as follows: July 3rd, 69°; 4th, 78°; 5th, 82°; 6th, 71°; 7th, 72°.

The "Nantucket" got underway on the 8th from the Willem Dock. The weather was threatening with considerable wind and passing squalls, but improved later in the day. At 12:40 P. M. the River Scheldt was cleared and course was set for Dover to pick up the London pilot. The barometer was falling, and by noon the south west wind freshened and finally became strong so that, while arrival at Dover by midnight had been anticipated, arrival was delayed until 3:30 A. M., July 9. Fresh breezes were carried to Gravesend, mostly ahead, and the ship arrived there at 1:18 P. M. to await a river pilot until 3:30 P. M. before proceeding to berth at East India Import Dock which was entered with considerable difficulty due to the gusty weather. The berth was easily accessible from the center of the city. Due to the IRA activities extreme watchfulness was maintained. Ship visitors were discouraged and only guests of officers were passed to the dock.

London

Regular watch liberty was granted to cadets, expiring at 10 P. M. As there was little that could be done in the way of drills and exercises at the berth occupied owing to the many restrictions at the dock, and also the exceptional interest of the port, liberty was granted from 10:30 A. M. instead of 1:30 P. M. as customary.

The cadets played two baseball games, one with the Anglo-American baseball Association, and the other with a nine from the Ford Motor Company.

The ship undocked on the 14th and proceeded under three boilers for Le Havre. The weather had become threatening with a southerly wind and passing rain squalls; but cleared as the mouth of the Thames was reached, and continued fine to port. After passing Dover the Belgian Training Ship "Mercator" was met and passed close aboard heading to the eastward under sail and motor power. From the mouth of the Thames, throughout the daylight hours, the coast of France was continually in sight, the atmosphere being exceptionally clear. The "Nantucket" arrived off Le Havre on July 15, and secured in the Garage du Sas at 2:28 P. M. Two tugs were required for assisting through the locks. The United States European Squadron, comprising the Cruiser "Trenton" and the destroyers "Jacob Jones" and the "Badger" were in port.

Le Havre

Upon arriving at Le Havre on Saturday, July 15, a boarding officer from the "Trenton" called and later the Consul came on board. The Superintendent of the school called on the Consul on Monday and then one of the vice consuls accompanied him on a round of calls including the Sub Prefect, the Mayor, President of the Autonomous Port, President of the Chamber of Commerce, Rear Admiral Director of the Merchant Marine, Director of Merchant Marine Personnel, Captain Commandant of the Naval Forces, and the Captain of the Port. Calls were later exchanged with the Commander of the U. S. European Squadron and the Captain of the "Trenton". Tuesday was spent in receiving calls. A reception for Rear Admiral Lackey was held at the Hotel de Ville by the Mayor to which the Superintendent was invited with fifteen cadets.

Usual watch liberty to 10 P. M. was granted cadets, and also two days liberty to visit Paris, which was taken advantage of by most of them. The "Normandie", "Washington", and "President Harding" among other large ships were in and out of the port during our stay. Through the good offices of the Consul cadets had opportunity to visit the "Normandie" and many did so. Some also visited the "President Harding". The berth (very convenient with a car line close at hand) was in the midst of shipping; and an excellent opportunity to witness the operations of a great commercial port was afforded. A baseball game was played by the cadets' team with a team from the "Jacob Jones" and the "Badger", the opponents winning a good game, 6-4.

Monsieur Dort, Director of the Nautical School of Marseilles, with his assistant called, as arranged by the Rear Admiral Director of the Merchant Marine, and showed much interest in the school and the courses. He requested literature and the Superintendent gave him copies of the catalogue, the Regulations, and the last annual report. He and his assistant looked over the ship and were much interested in costs.

Weather at Le Havre was most uncertain. Until the last day of our stay it was generally cloudy, overcast and threatening, with numerous showers and some heavy rains.

The "Trenton" departed on the 21st and the "Nantucket" left on the same day. Three boilers were carried until clearing Le Havre Lightship at 4:30 P. M., when one boiler was secured and the ship proceeded under two boilers for Lisbon. Fore and aft sails were set and good progress was made until after midnight when the wind began to draw ahead. The wind worked around to S.W., with haze, fog, and rain; and little better than five knots was averaged until the Channel was cleared and course was changed to the southward. On the 24th the wind freshened, gradually hauled to the N.W., and the weather cleared; and the ship was put under sail. In the evening the wind fell light and the ship was again put under steam. The ship was again put under sail in the early morning of the 26th. Routine drills and exercises were held. Man overboard drill was held on the 25th as follows: Boat in water, 0 minutes, 50 seconds—Buoy picked up 3 m. 35 s.—Boat hoisted, 9 m. 30 s.

In the evening of the 25th high land of northwest Spain was sighted and Cape Finisterre light was passed at 10:30 P. M., distant 23 miles. The ship continued under sail until off Cape Roca when sail was furled and the ship proceeded into port under three boilers. The ship was anchored off Black Horse Square (Commercial

Square), Lisbon at 11:37 A. M., July 27. On account of the very strong tidal currents it was not practical to use pulling boats, so arrangements were made for handling liberty parties with a shore launch.

Lisbon

Upon arrival at Lisbon, the Superintendent called on the Acting Consul General (the Consul General being on leave) and, accompanied by him, called on the United States Minister. The Minister and the Acting Consul General returned the call on the following day; and a liason officer (Portuguese naval lieutenant) reported to the Superintendent from the Minister of Marine and accompanied him on calls on Portuguese officers and officials, these including calls on the Commander of the Naval Forces and on the Military Governor of Lisbon and leaving cards on the Minister of Marine, the Civil Governor, the Mayor, and the Premier. All calls were returned by representatives except that on the Premier. The Mayor's Secretary invited the Superintendent to a tour of points of interest in the city which he accepted for himself and the executive officer.

The motor launch was used for all running boat trips, and a shore launch was engaged for handling liberty parties and for guests. The Minister invited the cadets to a party at the legation on Friday, the 28th of July, which was attended by the liberty watch. About one hundred young ladies were present. A group of cadets took a bus tour of points of interest in and about the city going among other places to Cintra and Estoril. The Superintendent heard numerous favorable remarks on their conduct and appearance.

The day following the arrival of the "Nantucket", the Portuguese fleet came into port and moored close down stream from the ship.

The ship got underway on August 1 and departed for Funchal. For more than two miles courtesies were exchanged with Portuguese men-of-war on both sides. The Tagus was cleared at 1:19 P. M. and the pilot dropped. At 1:56 P. M. the engine was uncoupled and the "Nantucket" proceeded under sail, close hauled with a fresh northwesterly wind, but by midnight had settled down to N.N.E. Routine drills and studies were held. As the ship had gotten very dirty during the coaling at Lisbon much time was taken in cleaning up. At 6:50 P. M. on Thursday, Porto Santo Island was sighted; and at sundown sail was furled and the ship put under steam. The "Nantucket" arrived off Funchal at 4:46 A. M., August 4, and lay to preparing for entering port, proceeding in and anchoring at 7:07 A. M.

Funchal

Upon arrival at Funchal the Captain of the Port and the United States Consul called. Later the Superintendent returned the call of the Consul and with him called on the Civil Governor, the Captain of the Port, and the Military Commandant. The Military Commandant and the Civil Governor returned the Superintendent's calls on the following day.

The usual watch liberty was granted cadets to 8 P. M. Pulling boats were used entirely as running boats, the motor launch not being hoisted out. Swimming was had from the ship, and boats were exercised under sail. Pulling races of about one mile distance were held on the 8th. The starboard watch won over the port watch, and the Deck won over the Engineers. Groups of cadets took bus trips, and one small group took a hike along the levada from Ribeiro Frio. Other groups went to the Lido pool for bathing.

The weather at Funchal was fine except that the 5th was overcast with a little rain. Noonday temperatures were as follows: August 4, 78°; 5th, 79°; 6th, 76°; 7th, 80°; and 8th, 76°. The new breakwater, extending 1000 feet to the eastward from Loo Rock is practically completed and was used by one ship during our stay. There were many ships in and out of the port, but only one tour ship.

Upon leaving Funchal on the 9th the wind was light and variable and did not settle down until the evening of the 10th, when topsails were set. On the morning of the 11th the engine was uncoupled and the ship proceeded under sail. The first day of

sailing, August 12, was the best—152 miles. The wind gradually fell off until, on the 15th, only 105 miles were made; and that afternoon the ship became practically becalmed. The engine was then coupled up and the ship proceeded under steam. As the wind did not come back by the night of the 16th it was decided not to waste time and fuel waiting for the wind but to head up on a more direct course for destination. An unusual feature noted during this passage was the low barometric pressure prevailing in the Trade Wind area.

When steaming under two boilers in warm waters evaporating is a serious problem; one boiler must be used for that purpose practically half the time. At the request of the chief engineer the third boiler was lit off on the 17th to replenish the fresh water supply so that the full power of two boilers could be utilized for steaming. The third boiler was discontinued on the 20th.

The wind continued from the eastward, but light and fitful, until the morning of the 19th, when it seemed sufficiently strong for sailing, and the ship was put under sail; but after an hour the wind began to fall off, and by noon the ship was becalmed. Just as the stun'sails had been taken in a squall from the north struck, and the wind then settled at N.E. Sail was continued but in an hour the wind was gone and the ship was put under steam again

After the first day out from Funchal no vessel was sighted until the evening of the 19th, when a steamer passed to the N.E The following morning three vessels were sighted.

Drills and studies were carried on in accordance with schedule. Church service was held on Sundays. Physical examinations were conducted on August 17 and 18 and term examinations were held during the week beginning August 21. It was hot during this week, but the weather was fine and it was practical to spread the after awnings so that the cadets could be protected against the sun.

Man overboard drills were held as follows:

August 10—(port) Boat in water 1 minute 10 seconds, (starboard) 0 minutes 55 seconds—Buoy picked up (port) 3 m. 55 s. (starboard) 3 m. 43 s.—Boat hoisted (port) 12 m. 20 s., (starboard) 13 m. 0 s.

August 16—Boat in water 1 minute 10 seconds—Buoy picked up 5 m. 25 s.—Boat hoisted 11 m. 35 s.

August 18—Boat in water 1 minute 6 seconds—Buoy picked up 4 m. 40 s.—Boat hoisted 9 m. 45 s.

In the morning of August 25, when about 150 miles eastward of Bermuda, course was set for Block Island. Easterly light breezes continued and fore and aft sails could be used much of the time A barometric low had persisted in the Bermuda region for many days and had caused some concern, but stormy weather only began to develop towards the end of the passage. Strong N.E. winds were experienced on the 28th. Block Island was sighted at 5:43 P. M., about 8 miles distant. The radio direction finder and the fathometer proved most useful in making the approach. The ship was anchored in Gardiner's Bay on August 28.

As the ship did not receive practique until after arrival at New London no communication with shore was had at Gardiner's Bay.

Gardiner's Bay

Stormy weather prevailed throughout the stay of the "Nantucket" in Gardiner's Bay, the wind reaching gale force in the forenoon of Wednesday, August 30. The 31st, the day on which it was intended to leave was unfavorable and departure was delayed until 6 A. M., September 1. Wednesday steam was gotten up as a safeguard, but in the protected anchorage it was not necessary.

The "Nantucket" arrived at New London and secured at the State Pier at 9:30 A. M. on September 1. Upon arrival there remained on hand 25.9 tons of coal.

New London

The stay at New London was devoted to ship's work. The berth was very convenient and satisfactory. The ship was coaled, taking 70 short tons.

New Rochelle

The stay of the "Nantucket" at New Rochelle was devoted to liberty, principally to enable the cadets to visit the World's Fair, liberty being granted by watches from 10:30 A. M. to 11 P. M. A few cadets who had relatives in the vicinity and from whom requests had been received, were granted over night liberty. Some very favorable comment regarding appearance and behavior of cadets at New Rochelle were heard.

The Superintendent made an appointment to call on the Mayor; but received word that the Mayor and city officials were coming to call on the Superintendent. They arrived in the early afternoon,—the Mayor, City Manager, Councillor for Public Safety, and several others.

On Friday, the 8th, the afternoon was squally. At 4:30 P. M. the anchor dragged necessitatiing dropping the second anchor and veering chain. The ship dragged 150 yards. During the squall hailstones as large as marbles fell with much force.

The ship was gotten underway under two boilers on September 11, for Mattapoisett. Fresh northwesterly winds prevailed. Very few vessels were seen in the sound. Favorable currents generally were met and the "Nantucket" arrived off Mattapoisett at 5 A. M., September 12, proceeding in after daylight and anchoring at 6:35 A. M.

Commissioners' Inspection

The three Commissioners of the School proceeded to Mattapoisett on Sunday, September 17, and boarded the ship about 4 P. M. The "Nantucket" passed through Cape Cod Canal late Sunday afternoon, leaving the canal at 8 P. M., and anchoring in President Roads at about 8 A. M. on Monday. Strong head winds with rain and a heavy sea were encountered. While at anchor in President Roads, the cadets were exercised at collision drill, fire drill, lifeboat drill, and sail drill. The ship then proceeded to her berth at the Boston Navy Yard, arriving there about 2 P. M.

The usual inspection was made of the cadets at formation and of the various departments of the ship. The personnel was found in good condition and the ship and equipment presented an excellent appearance.

Cruise Mileage

	Days	Hours	Minutes	Miles
Steam	22	05	44	3,412
Sail	12	20	10	2,042
Steam and sail	23	08	17	4,006
Total at sea	58	10	11	9,460
In port	69	13	41	
Total for voyage	127	23	52	

Coal Report

The following is a report of coal consumption for the cruise of 1939:

On hand and received	729 tons
Expended	704 tons
Remaining, September 20	25 tons

Items

Moving ship	449 tons
Auxiliaries and lighting	206 tons
Distilling	42 tons
Galleys	7 tons
Total expended	704 tons

The School Record

During the year there have been 179 students on the rolls of the school. They came from 75 cities and towns of the Commonwealth as follows:

Arlington	4	Ipswich	1	Reading	1
Beachmont	1	Lawrence	4	Revere	2
Belmont	6	Leominster	2	Salem	1
Boston	14	Lowell	1	Shelburne Falls	1
Braintree	2	Malden	3	Shrewsbury	1
Brockton	2	Mansfield	1	Somerville	6
Cambridge	1	Marblehead	3	So. Attleboro	1
Clinton	1	Marlborough	4	Springfield	6
Cohasset	1	Mattapoisett	1	Stoughton	2
Concord	2	Medford	4	Swampscott	1
Dedham	1	Melrose	4	Swansea	1
Everett	2	Natick	3	Taunton	5
Fairhaven	2	Needham	2	Uxbridge	1
Fall River	3	New Bedford	3	Wakefield	3
Falmouth	1	Newburyport	1	Walpole	1
Florence	2	Newton	2	Waltham	3
Foxborough	1	North Adams	1	Watertown	2
Framingham	1	Northampton	2	W. Barnstable	2
Gloucester	2	Norwood	2	Westfield	2
Greenfield	2	North Dartmouth	1	Weymouth	5
Groveland	1	Peabody	2	Wilmington	1
Hanover	1	Pepperell	2	Winchester	2
Haverhill	4	Pittsfield	1	Winthrop	4
Hingham	1	Provincetown	1	Wollaston	6
Hyannis	1	Quincy	7	Worcester	2
Total					179

The previous education of these students was as follows: high schools, 157; colleges, 6; preparatory schools, 6; academies, 6; technical schools, 4. The average age of the cadets at entrance was 18 years, 5 months. The number of cadets enrolled in the school at present is 118.

Officers and Instructors

Clarence A. Abele, Captain, U.S.N. (retired), Superintendent.
Robert M. Gray, Lieutenant, U.S.N.R. (graduate M.N.S.) Executive Officer.
John W. Thompson, (graduate M.N.S.), Navigator.
Richard T. Rounds, (graduate M.N.S.), Watch Officer.
Louis A. Woodland, (graduate M.N.S.), Watch Officer.
Ervin L. Kelley, Lieut. Comdr., U.S.N.R. (graduate M.N.S.), Chief Marine Engineer.
John R. Hickey, (graduate M.N.S.), Assistant Marine Engineer.
John E. Wright, Instructor in Mathematics.
Charles M. Taylor, Instructor in Mechanical Drawing.
Arthur E. MacNeill, M.D., Surgeon, Summer Term.
Ashton Graybiel, M.D., Surgeon, Winter Term.
Charles Parker, Paymaster.

Cadet Officers of the Massachusetts Nautical School
Summer Term

Navigation

Walter E. Schortmann . . . . . *Senior Cadet Officer*
Leon A. Burkett, Jr. . . . . *Junior Cadet Officer*

Engineering

George E. Harrington . . . . . *Senior Cadet Engineer Officer*
Arthur R. Wyman . . . . . *Junior Cadet Engineer Officer*

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Navigation

Frank N. Lang . . . . . *Senior Cadet Officer*
N. Curtis Bliven . . . . . *Junior Cadet Officer*

Engineering

Forrest L. Bryan . . . . . *Senior Cadet Engineer Officer*
James M. Andrews, Jr. . . . . *Junior Cadet Engineer Officer*

Graduation Exercises

The eighty-ninth graduation exercises were held on board the "Nantucket" at the Navy Yard, Charlestown, on Tuesday, April 4, 1939, at 11 A. M. The program was as follows:

Prayer: Capt. Thomas B. Thompson, (Ch.C.), U.S.N., Navy Yard, Charlestown.

Presiding Officer: Mr. Clarence E. Perkins, Chairman of the Commissioners of the School.

Address: Hon. Leverett Saltonstall, Governor of the Commonwealth.

Prize awarded by the Boston Marine Society to the graduate excelling in those qualities making for the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership. Presented by Capt. Harold G. Foss, President, Boston Marine Society, to Donald G. Allen of Wollaston.

Prizes awarded by Mr. Arthur M. Wiggin of Brookline to the graduates in the Seamanship Class and in the Engineering Class making the greatest improvement in all around work during the past year. Presented by Mr. Wiggin to Alden M. Tibbetts of Melrose, Seamanship Class; Francis D. Gilmartin of Walpole, Engineering Class.

Prize awarded by The Society of the War of 1812 to the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States. Presented to Harold B. Bergenheim of Dorchester.

Prize awarded by the Massachusetts State Society, United States Daughters of 1812, to the graduate in the engineering division standing highest in engineering and electricity. Presented by Mr. Milburn Edgar Yeager, President, to Harold B. Bergenheim of Dorchester.

Prize awarded by Mr. William H. Dimick, Secretary of the Board, to the graduate receiving the highest final average. Presented by Mr. Dimick to Donald G. Allen of Wollaston.

Presentation of Bibles given by the Massachusetts Bible Society: Chaplain Thompson.

Presentation of Diplomas: Mr. Walter F. Downey, Commissioner of Education, Massachusetts Department of Education.

The ninetieth graduation exercises were held in the Naval Reserve Armory, Building No. 5, Navy Yard, Charlestown, on Tuesday, September 26, 1939, at 11 A. M.

Prayer: Capt. Thomas B. Thompson, (Ch.C.), U.S.N., Navy Yard, Charlestown.

Presiding Officer: Mr. Clarence E. Perkins, Chairman of the Commissioners of the School.

Prize awarded by the late Irving L. Wood to the graduate having the highest mark in Seamanship and Navigation for the year. Presented by Mr. Theodore L. Storer, Commissioner of the School, to Robert H. Smith of Wollaston, class of April 1939.

Prize awarded by the Boston Marine Society to the graduate excelling in those qualities making for the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership. Presented by Capt. Harold G. Foss, President, Boston Marine Society, to Walter E. Schortmann of Springfield.

Prizes awarded by Mr. Arthur M. Wiggin of Brookline to the graduates in the Seamanship Class and in the Engineering Class making the greatest improvement in all around work during the past year. Presented by Mr. Wiggin to Leon A. Burkett, Jr. of Stoughton, Seamanship Class; Arthur R. Wyman of Uxbridge, Engineering Class.

Prize awarded by The Society of the War of 1812 to the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States. Presented by Col. Frederic Gilbert Bauer to George E. Harrington of Haverhill.

Prize awarded by the Massachusetts State Society, United States Daughters of 1812, to the graduate in the engineering division standing highest in engineering and electricity. Presented by Mrs. Milburn Edgar Yeager, President, to Arthur R. Wyman of Uxbridge.

Prize awarded by Mr. William H. Dimick, Secretary of the Board, to the graduate receiving the highest final average. Presented by Mr. Dimick to John E. Gilleland, Jr. of Medford.

Prize awarded by the Boston Quarterdeck Club (Alumni Association) to the Cadet Electrician. Presented by Mr. George F. Carreiro, to Harlow A. Lazott of Worcester.

Presentation of Bibles given by the Massachusetts Bible Society: Dr. Frank K. Singiser, Secretary, Massachusetts Bible Society.

Presentation of Diplomas: Mr. Walter F. Downey, Commissioner of Education, Massachusetts Department of Education.

Address: Hon. John F. Fitzgerald, Boston Port Authority.

Cadets Admitted, Graduated, and Honorably Discharged, from 1893, to 1939, Inclusive

	Admitted	Graduated			Honorably discharged	Withdrawn, dismissed, dropped	Number connected with the school
		Seamanship Class	Engineer Class	Totals			
1893	141	—	—	—	29	24	138
1894	63	—	—	—	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	138
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	43	19	9	188
1923	77	27	16	50	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
1929	71	23	29	52	12	7	189
1930	62	33	19	52	8	3	180
1931	74	38	19	57	6	9	191
1932	50	23	22	45	2	3	169
1933	65	40	30	70	5	1	184
1934	55	20	20	40	4	1	163
1935	68	40	22	62	7	2	186
1936	58	26	19	45	4	4	172
1937	61	36	24	60	1	—	180
1938	60	36	21	57	3	1	179
1939	61	36	23	59	2	—	179
Totals	3,294	1,043	878	1,921	754	501	

Membership of the School

Graduating Class, April, 1939

*Received 85 percent, or over, of the academic multiple, and entitled to wear gold star on coat collar.

†Appointed merchant marine cadet, U. S. Naval Reserve.

Seamanship Division

Name	*Residence*
*†Allen, Donald G.	Wollaston
* Bamford, Robert C.	Ipswich
*†Alther, George W.	Melrose
†Hayward, Loring F.	Taunton
†Shaw, Milton H.	New Bedford
*†Smith, Robert	Wollaston
†*Tibbetts, Alden M.	Melrose
†Brown, Norman M.	Taunton
†Burke, Thomas E.	Allston
†Watts, Bernard A.	Malden
†Judge, William E., Jr.	West Roxbury
Shea, Bernard M.	Dorchester
†Steward, Roger A.	Winthrop
†Romanos, Arthur R.	Fall River
Howe, Frank C., Jr.	Wollaston
†Sheehan, William F., Jr.	Winchester
Carleton, William H.	Hanover
Hallbourg, Walter T.	East Pepperell

Engineering Division

* Bergenheim, Harold B.	Dorchester
Hall, Robert E.	Winthrop
†Volick, Joseph R.	Cambridge
†Gilmartin, Francis D.	Walpole
†Johnson, Freeman K.	Waltham
Wayman, Richard P.	Falmouth
†Vigue, George D.	Framingham
†Hennigan, Timothy J., Jr.	Somerville
†Wheble, Edwin R.	Quincy
†Laforet, Louis F.	Waltham
†Barry, Edwin F.	Everett
†Bell, Charles W.	Waltham
†Champagne, Joseph R.	Haverhill
†Johnson, Ralph F.	Somerville
Geehan, James J., Jr.	Marlboro

Graduating Class, September, 1939

Seamanship Division

†Gilleland, John E., Jr.	Medford
†Danielson, Bert	Watertown
†Burkett, Leon A., Jr.	Stoughton
†Lodigiani, Edward C.	Springfield
†Schortmann, Walter E.	Springfield
†Chace, Robert M.	North Dartmouth
†Montgomery, William A.	Belmont
†Eldridge, Kenneth	Marblehead

†Hodges, Sidney B.	Dedham
†Wilder, Arthur T.	North Weymouth
†Person, Kurt G. R.	Marblehead
†Houghton, George A.	East Pepperell
†Schroeder, William H.	Newton
†Wilder, Albert L.	North Weymouth
†Brown, Earl S.	Marlboro
†Mason, Wallace R.	Leominster
†Boland, Kells M.	Melrose
†Blaher, Lawrence J.	Hyde Park

Engineering Division

†Harrington, George E.	Haverhill
†Wyman, Arthur R.	Uxbridge
†George, Harold F.	West Barnstable
Lazott, Harlow A.	Worcester
†Redmayne, Richard B.	Westwood
†Greene, Paul	Dorchester
†McCabe, Hugh T.	Somerville
†Bosche, Frank N.	East Weymouth

Class to Graduate, March, 1940

Seamanship Division

†Malone, Edgar S., Jr.	Wakefield
†McLoud, Charles R.	Gloucester
†Bliven, Nelson C.	Malden
†Sweeney, Newell	Brockton
†Lang, Frank N.	Swampscott
†Ohlin, Stanley N.	Belmont
†Carl, Edward F.	Roslindale
†Collins, Atwell G.	Quincy
†Roy, Paul T.	Worcester
†Nowell, Burton F., Jr.	Melrose
†Christianson, Frederick R. M.	Arlington
†Powell, Jack R.	New Bedford
†Massey, Francis A., Jr.	Norwood
†Folsom, Samuel B.	Peabody
†Scudder, Robert F.	Hyannis

Engineering Division

Digiacomo, Dominic	Natick
†Christiansen, Arnold R.	Arlington
†Congdon, Bernard R.	Foxboro
†DesChamps, Arthur J.	Natick
†Bryan, Forrest L.	Westfield
†Howes, Wallace A., Jr.	Northampton
†Andrews, James M., Jr.	Revere
†Wood, Gordon A.	Groveland
†Lavelle, Edward J.	Clinton
†Birmingham, Raymond F.	Wollaston
Breen, Wilfred P.	Medford
†Wirtanen, Martin E.	West Barnstable
†Hartford, Arnold E.	Haverhill
†Fitzgerald, Donald J.	Westfield
†Wilson, James W.	Somerville

Class to Graduate September, 1940

Seamanship Division

†Curtice, Reginald M.	Belmont
†Hiller, Emerson H.	Mattapoisett
†Pattangall, Sewall L., Jr.	Brockton
†Ranen, Leo	Salem
†Dickie, Rodman L., Jr.	Arlington
†Van Gemert, Lee	North Quincy
†Sprague, F. Lester, Jr.	Quincy
†Dee, Donald W.	Taunton
†Jordan, James O., 3d	Belmont
†Smith, Rodger S.	Greenfield
†Christophers, Edward A.	Fall River
†Melzar, Frederick P.	Wilmington
†Foster, Walter S.	Wollaston
†O'Brien, Paul D.	Taunton
†Wood, Arthur O., Jr.	Cohasset
†Jennings, Norman V.	Somerville
†Cates, Robert P.	Winthrop
†Doell, Charles H.	West Roxbury
†Monk, Herbert A.	South Weymouth

Engineering Division

†LaBranche, Joseph P.	Haverhill
†Cote, Oliver P.	Lowell
†Smith, Warren N.	Marblehead
†Mignacca, Joseph K. L.	Shrewsbury
†Fisher, Kenneth	New Bedford
†Eaton, Lewis S.	Provincetown
Nyhan, Frederick P.	Lawrence
†Wells, Robert B.	Medford
†Pendleton, John S., Jr.	Florence

Class to Graduate, March, 1941

Dragon, Arthur H.	Northampton
Shuttleworth, Edwin J.	Quincy
Auditore, Concetto J.	Beachmont
Popp, Walter F.	Taunton
Kimberley, Jack, Jr.	Medford
Soule, Dorance A.	Needham
Kean, Richard W.	Concord
McMullen, Cornelius E.	Fall River
McCollom, James C.	Winthrop
Hicks, Howard R.	East Braintree
Miller, Charles C.	Fairhaven
Carlson, John G.	Winchester
O'Dowd, Joseph M.	Lawrence
Carson, Edward	Allston
Cheever, Robert J.	Belmont
Buckwalter, George E.	Pittsfield
Young, Rollin T.	Quincy
Emerson, Edward W.	Concord
Trowbridge, Herbert W.	Stoughton
Pierce, Andrew	Malden
Whittaker, Robert J.	West Roxbury
Graham, John F.	Arlington

Coyle, Francis A.	South Braintree
Sumner, Robert L., Jr.	South Attleboro
Stetson, Herbert A., Jr.	Fairhaven
Wentworth, Leigh A.	Natick
Wallace, William N., Jr.	Springfield
Chapman, Clarence A.	Reading
Marcus, Philip	Dorchester

Class to Graduate September, 1941

(Alphabetically arranged)

Ball, William B., Jr.	Marblehead
Barrows, Charles J.	Wakefield
Berry, L. Kimbell, Jr.	North Adams
Bougess, Ernest S.	Everett
Burns, George L., Jr.	North Quincy
Carman, James R.	Springfield
Coffey, James J.	Peabody
Curtin, Robert J.	Boston
Daysh, Harrison J.	Greenfield
Dewey, John B.	Florence
DiCori, Ralph	Watertown
Donohoe, Edward R.	Lawrence
Duffy, George W.	Newburyport
Farrell, Albert H.	Shelburne Falls
Foley, Joseph	West Roxbury
Genova, Fiori P.	West Newton
Howe, William R.	Mansfield
Howell, John J., Jr.	Dorchester
Hutchinson, Edward H., Jr.	Hingham
Johnson, David H.	North Weymouth
Kingston, Waldo H.	Needham
Light, Malcolm E.	Springfield
McGrath, James W.	Springfield
McLean, Odber R., Jr.	Belmont
Rogers, Donald K.	Wollaston
Savage, Charles E., Jr.	Marlboro
Schmidt, Edwin A.	Lawrence
Stevens, Charles R.	Revere
Stevenson, George B.	Swansea
Swanson, Linwood G.	Somerville
Yager, John W.	Leominster

FINANCIAL STATEMENT

Appropriations

The appropriations for the school for the fiscal year 1939, from December 1, 1938, to November 30, 1939, are accounted for as follows:

Expenses of Schoolship	*Appropriations*	*Expenditures*
Personal Services		$46,302.46
Travel, transportation and office expenses		958.53
Food		22,787.67
Furnishings and household supplies		1,222.14
Medical and general care		934.47
Heat, light, power, etc.		7,994.08
Repairs, ordinary		1,330.88
Miscellaneous		2,747.14
Brought forward from 1938 appropriation	$1,350.76	
1938 invoices paid in 1939		1,329.64
	$1,350.76	$85,607.01
Appropriation for 1939	87,838.41	
Unexpended balance		*3,582.16
	$89,189.17	$89,189.17
Expenses of Commission		
Office supplies and equipment		$389.56
Traveling and other services and expenses		1,705.15
Brought forward from 1938 appropriation	$52.16	
1938 invoices paid in 1939		52.16
	$52.16	$2,146.87
Appropriation for 1939	2,097.90	
Unexpended balance		3.19
	$2,150.06	$2,150.06
Personal Services		
Commissioners' office	$5,120.00	$5,120.00

*$195.76 bills outstanding.

Income	
Received from Navy Department	$25,000.00
Received from tuition and other fees	11,600.00
Other Income	12.14
	$36,612.14

Financial Statement Verified.

Approved: GEO. E. MURPHY,
Comptroller.

Respectfully submitted,

CLARENCE E. PERKINS, *Chairman*
THEODORE L. STORER
WALTER K. QUEEN
Commissioners.

Public Document No. 42

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THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF EDUCATION

ANNUAL REPORT

OF

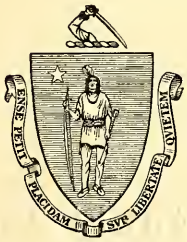
THE COMMISSIONERS

OF THE

MASSACHUSETTS NAUTICAL SCHOOL

FOR THE

YEAR ENDING NOVEMBER 30, 1940.



MASSACHUSETTS NAUTICAL SCHOOL
100 NASHUA STREET, BOSTON

PUBLICATION OF THIS DOCUMENT APPROVED BY THE COMMISSION ON ADMINISTRATION AND FINANCE
800-3-41-5724

The Commonwealth of Massachusetts

DEPARTMENT OF EDUCATION

WALTER F. DOWNEY, *Commissioner of Education*

COMMISSIONERS OF THE MASSACHUSETTS NAUTICAL SCHOOL

100 NASHUA STREET, BOSTON

WALTER K. QUEEN, *Chairman*
THEODORE L. STORER
ARTHUR M. WIGGIN

WILLIAM H. DIMICK, *Secretary*

REPORT OF THE COMMISSIONERS

To the Commissioner of Education:

The Commissioners of the Massachusetts Nautical School have the honor to submit their report for the year ending November 30, 1940, the forty-ninth annual report.

SCHOOL CALENDAR, 1940

Spring entrance examinations	March 28, 29, 30
Spring graduation	April 2
Winter term ended	April 2
New class reported	April 22
Leave, 1st section	April 2 to 16
Leave, 2nd section	April 16 to 30
Summer term commenced	April 30
"Nantucket" sailed from Boston	May 11
"Nantucket" arrived at Boston	September 23
Autumn entrance examinations	September 26, 27, 28
Autumn graduation	October 1
Summer term ended	October 1
New class reported	October 21
Leave, 1st section	October 1 to 18
Leave, 2nd section	October 18 to November 1
Winter Term commenced	November 1

The Massachusetts Nautical School is a division of the State Department of Education. The school is maintained by the State with the cooperation of the Federal Government. The United States government loans the Schoolship NANTUCKET to the State, keeps the ship in good condition, and reimburses the Commonwealth for the cost of maintenance to the amount of $25,000. The course of instruction is three years, during which time, the school trains and educates young men of Massachusetts to become deck and engineer officers in the American merchant marine. The age limit for applicants is from seventeen years to the twentieth birthday. During the winter months, the ship is berthed in Boston and the school is conducted on board the ship and in classrooms on shore. From May until September of each year, the time is occupied with a practice cruise in home or foreign waters.

Three Year Course

Commencing with the class which entered the school in October 1940, the course of study will occupy three years. This places the Massachusetts school in line with the other three State nautical schools now on a three year basis. A three year course will permit a more comprehensive treatment of the subjects now included in the curriculum, and will allow for the introduction of two or three additional subjects. The demands upon an officer in the merchant marine at the present time call for a broader and more thorough education and training.

Winter Term

The course in Naval Science commenced last year has been continued. The course given by Commander E. B. Robinson, U.S.N., and his associate instructors, was interesting, and was of value not only in preparing the cadets for service in the Naval Reserve, but also for service in the merchant marine.

The schoolship was berthed at the usual pier, Pier 1, Navy Yard. The entrance examinations and the graduation exercises were held in the commodious drill hall of the Naval Reserve building, Navy Yard.

Before leaving on the summer cruise, repairs to the ship were made by the Navy Department at a cost of $12,596. The cost of repairs was divided as follows: construction and repair $9,833; engineering department $2,686; navigation $77.

Summer Term

The war in Europe made it necessary to limit the practice cruise to the West Indies and the coastal waters of the United States. The itinerary included the following ports: Gloucester, Washington, Norfolk, St. Thomas, San Juan, Guantanamo, Portland, Greenport, Boston, Booth Bay, New Bedford, East Lamoine, Glen Cove, Fall River, and Cataumet. While the ship was in Glen Cove, Long Island, the cadets were given leave to visit the World's Fair. A detailed account of the cruise is given on page 8.

In order that he might observe the work of the school at first hand, Commissioner Walter K. Queen joined the Schoolship NANTUCKET at Norfolk on May 29, and sailed with the ship to the West Indies. He remained on board until June 27.

Commissioners' Inspection

Commissioners Queen and Wiggin and the Secretary of the Board arrived on board the Schoolship NANTUCKET in Buzzards Bay (anchored off Cataumet) at 4.45 P. M. on September 22 for the purpose of making an inspection of the school while the ship was proceeding from Buzzards Bay to Boston. The ship passed through the Cape Cod Canal during the early evening of September 22. Upon reaching a position about two miles off Boston Light, the ship laid to for several hours. At nine o'clock on Monday morning, the ship proceeded to Pier 1, Navy Yard, Charlestown, where it arrived at 11.30 A. M.

During the passage the cadets were exercised at lifeboat drill, collision drill, and fire drill. The cadets were inspected at formation and a thorough inspection was made of all parts of the NANTUCKET. The ship was found in good condition, and the morale of the officers, cadets and crew was excellent.

Transfer of Federal Jurisdiction

Since the school was established in 1891, the school has, so far as Federal supervision was concerned, been under the wing of the Navy Department. In order to promote a closer coordination of the nautical schools with the training work of the United States Maritime Commission, the functions of the Navy Department relating to nautical schools were transferred on June 30 to the United States Maritime Commission. In addition to the distinct benefits which will accrue to the school under the present organization, the school will continue to have the hearty cooperation of the Navy Department, extending to the school the privileges of berthing the ship at the Navy Yard, class rooms, and the purchase of supplies.

In an official letter received from the Chief of Naval Operations, Navy Department, Washington, D. C., the subject of which was the transfer of Federal control of the State nautical schools from the Navy Department to the United States Maritime Commission, was included the following paragraph:

> The Chief of Naval Operations takes this opportunity to congratulate the schools on their long and successful records with the Navy Department and extends his best wishes for continued progress under the Maritime Commission.

Cadet Officers, United States Maritime Commission

Most of the recent graduates have accepted assignments as cadet officers. During the year, the United States Maritime Commission has appointed ninety-eight cadet officers from the four State nautical schools, for service in the United States Geodetic Survey and merchant marine and of this number, forty-six, or nearly fifty percent, were graduates of the Massachusetts Nautical School. The appointees from the Massachusetts Nautical School were divided as follows: 22 deck cadet officers, and 24 engineer cadet officers. The 8 engineer graduates who were assigned to shipyards for special training were from the Massachusetts school.

Conferences in Washington

On March 18, Mr. Clarence E. Perkins, Chairman of the Board, Commissioner Walter K. Queen, and Captain Clarence A. Abele, U. S. N., represented the School at a hearing held in the Navy Department, Washington, in conjunction with representatives of the three other State nautical schools. The conference was called for the purpose of discussing matters of vital importance to the nautical schools. The following subjects were discussed: legislation providing for the construction of new schoolships, Naval Reserve ratings for the personnel of the schoolships, instruction in Naval subjects, appointment of cadets in Merchant Marine Reserve, and license requirements.

On the following day, March 19, Commissioner Queen and Captain Abele attended a hearing called by the Committee on Merchant Marine and Fisheries on bills before Congress providing for the construction of new schoolships. Representatives were present at this hearing from the Navy Department, the United States Maritime Commission, the ports of Astoria, Norfolk, Morehead City, the Masters, Mates and Pilots Association, the Boston Port Authority, and the Massachusetts Nautical School Alumni Association.

The following resolution was unanimously adopted by the representatives of the four State nautical schools present at the hearing:

> Be it resolved that it is the consensus of opinion of the representatives of the respective State Nautical Schools in attendance at this meeting that they are opposed to any regulation that will operate to require graduates of State Nautical Schools to have at least six months, more or less, of employment at sea prior to being eligible to take examinations for licenses; as it would be inimical to the interest and jeopardize the further operation and continuance of the respective State Nautical School, and be it further resolved that the presiding officer of this conference transmit a copy of this resolution to the Bureau of Marine Inspection and Navigation, Department of Commerce, via the Secretary of the Navy, so that the Department of Commerce may be advised of the position of the respective Nautical Schools in connection with any consideration of such proposals.

New Schoolship

Hon. S. O. Bland of Virginia placed before Congress on August 7, 1940 the following bill providing for the construction of new schoolships:

A Bill

To authorize the United States Maritime Commission to furnish suitable vessels for the benefit of certain State nautical schools, and for other purposes.

(a) Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the United States Maritime Commission (hereinafter referred to as the Commission) is authorized and empowered, under such rules and regulations as it may prescribe, to furnish suitable vessels, together with all their apparel, charts, books, and instruments of navigation, one to each of the States of New York, Massachusetts, Pennsylvania, and California, for the benefit of their respective nautical schools.

(b) The Secretary of the Navy is hereby authorized, notwithstanding any other provision of law, to supply suitable vessels of the Navy, and the Secretary of the Treasury is authorized to supply suitable vessels of the Coast Guard, for such use by the Commission, provided the same can be spared without detriment to the services to which such vessels have been assigned.

Sec. 2. (a) The Commission is authorized and directed to provide for the construction of four suitable vessels to replace vessels furnished under section 1 hereof or the Act of March 4, 1911, as amended, entitled "An act for the establishment of marine schools, and for other purposes."

(b) The Commission is authorized to secure bids for the construction of such vessels in accordance with approved plans and specifications and to enter into a contract with the successful bidder for the construction, outfitting, and equipment of such vessels.

(c) Such vessels shall be (1) equipped with modern engines for propulsion and modern instruments of navigation, (2) of adequate size to enable them to be used for the purpose of giving instruction in nautical science, and (3) constructed in accordance with plans and specifications to be prepared by the Commission and approved by the Secretary of the Navy.

(d) There is hereby authorized to be appropriated the sum of $10,000,000, or so much thereof as may be necessary, for the purpose of carrying out the provisions of this section.

Sec. 3. All vessels furnished to States under this Act shall be and remain the property of the United States and shall be maintained in good repair by the Commission.

Sec. 4. Section 2 of the Act entitled "An Act for the establishment of marine schools, and for other purposes", approved March 4, 1911, as amended, is amended to read as follows:

"Sec. 2. A sum not exceeding the amount annually appropriated by any State or municipality for the purpose of maintaining such a marine school or schools or the nautical branch thereof is hereby authorized to be appropriated for the purpose of aiding in the maintenance and support of such school or schools: Provided, however, That appropriations shall be made for one school in any port heretofore named in the preceding section and that the appropriation for any one year shall not exceed $50,000 for any one school."

Sec. 5. (a) Each marine school or nautical branch thereof, as a condition to receiving any portion of the monetary aid authorized by section 2 of the Act of March 4, 1911, as amended, entitled "An Act for the establishment of marine schools, and for other purposes", or the use of any vessel authorized under this Act, shall agree to conform to such standards in regard to students' entrance requirements, the staff of instructors, and courses of and facilities for training, as the Commission shall, by rules and regulations, prescribe.

(b) Each marine school or nautical branch thereof, as a condition to receiving any portion of such monetary aid in excess of $25,000, shall agree to admit to such school students resident in other States upon terms and in such numbers as the Commission shall, by rules and regulations, prescribe.

The bill had the support of the United States Maritime Commission, the Navy Department, the four State nautical Schools, the Alumni Associations, and many maritime organizations.

The Act was passed by the Senate and failed to come to a vote in the House. This bill, or a similar one, will probably be introduced into Congress next year.

Personnel

Mr. Louis E. Woodland, class of 1929, who served as Watch Officer for six years, resigned on March 31.

James T. Hodgson, Jr., class of 1934, was appointed Watch Officer on April 1.

On July 23, Commissioner Clarence E. Perkins resigned as Commissioner of the School after a service of twenty-five years. He was Chairman of the Board from March 1935 until his resignation. The resignation of Mr. Perkins was regretted by all connected with the school, and at a meeting of the Board held on July 25, it was voted to place the following statement on the records:

> The Commissioners sincerely regret the recent resignation of Mr. Clarence E. Perkins as a member of the Commission. During the twenty-five years he has served as a Commissioner, eight years of which he was Chairman of the Board, his work has been of the highest order. During his long service he has never failed to take a deep and genuine interest in the school. A graduate of the school in 1895, the year of the first graduating class, he brought to the work a genial personality, sound judgment and good business ability, rendering a valuable and honorable service to the State. The outstanding success which has attended nautical education in Massachusetts has been due in large measure to his untiring efforts in its behalf.

On July 24, Mr. Arthur M. Wiggin of Brookline was appointed a Commissioner of the School to fill the vacancy caused by the resignation of Mr. Perkins.

On July 25, Lieut. Comdr. Walter K. Queen, U. S. N. R., Retired, was elected Chairman of the Board of Commissioners.

Captain Robert M. Gray, Executive Officer on board the Schoolship NANTUCKET, resigned on August 15 to accept an executive position with the United States Maritime Commission. Mr. Gray was graduated from the Massachusetts Nautical School in 1912. He was an officer and instructor in the school for nine years, four years as Navigating Officer, and five years as Executive Officer. Most outstanding as an officer and instructor, the Commissioners accepted his resignation with regret.

John W. Thompson, class of 1912, was appointed Executive Officer on August 16.

Richard T. Rounds, class of 1926, was appointed Navigating Officer on August 16.

William J. Connors, class of 1932, was appointed a Watch Officer on August 23.

John E. Wright, who for nine years was the Instructor in Mathematics, died on October 17. He was a man of good ability and personality and rendered a valuable service to the State.

Samuel A. Stone was appointed Instructor in Mathematics on October 28 to fill the vacancy caused by the death of Mr. Wright.

Graduates of the School in 1940

The following is a list of the fifty-eight graduates of 1940, the names of their home towns, and their first employment:

Name	Residence	Vessel	Service
*James M. Andrews, Jr.	Revere	S. S. Malacca	C. D. Mallory and Co.
*Raymond F. Birmingham	Wollaston	Special training	Sun Shipbuilding & Dry Dock Co.
*N. Curtis Bliven	Malden	Instructor of cadets	Admiral Billard Academy
*Wilfred P. Breen	Medford	Special training	Sun Shipbulding & Dry Dock Co.
*Forrest L. Bryan	Westfield	Special training	Sun Shipbuilding & Dry Dock Co.
*Edward F. Carl	Roslindale	S. S. Pipestone County	Seas Shipping Co.
Robert P. Cates	Winthrop	S. S. Floridian	American Hawaiian Line
*Arnold R. Christiansen	Arlington	Cadet Officer	Sun Oil Co.
*Frederick R. Christianson	Arlington	U. S. S. Iuka	Naval Reserve
*Edward A. Christophers	Fall River	S. S. Uruguay	Moore-McCormack Lines
*Atwell G. Collins	Quincy	S. S. Excelsior	American Export Lines
Bernard R. Congdon	Foxboro	S. S. City of Baltimore	Panama Pacific Lines
*Oliver P. Cote	Lowell	Special training	Sun Shipbuilding & Dry Dock Co.
*Reginald M. Curtice	Belmont	U. S. C. G. Explorer	U. S. Coast & Geodetic Survey
*Donald W. Dee	Taunton	S. S. Atlas	Socony Vacuum Oil Co.
*Arthur J. DesChamps	Natick	S. S. Mormacland	Moore-McCormack Lines
*Rodman L. Dickie, Jr.	Arlington	S. S. Nebraskan	American Hawaiian Lines
*Dominic Digiacomo	Natick	S. S. Swiftsure	C. D. Mallory & Co.
*Charles H. Doell	West Roxbury	S. S. Indian Arrow	Socony Vacuum Oil Co.
*Lewis S. Eaton	Provincetown	Special training	Sun Shipbuiding & Dry Dock Co.
*Kenneth Fisher	New Bedford	Tanker	Sun Oil Co.
*Donald J. FitzGerald	Westfield	Special training	Sun Shipbuilding & Dry Dock Co.
*Samuel B. Folsom	Peabody	U. S. C. G. Explorer	U. S. Coast & Geodetic Survey
*Walter S. Foster	Wollaston	U. S. C. G. Guide	U. S. Coast & Geodetic Survey
*Arnold E. Hartford	Haverhill	Special training	Sun Shipbuilding & Dry Dock Co.
*Emerson H. Hiller	Mattapoisett	U. S. C. G. Explorer	U. S. Coast & Geodetic Survey
*Wallace A. Howes, Jr.	Northampton	M. S. Atlantic Sun	Sun Oil Co.
*Norman V. Jennings	Somerville	U. S. C. G. Pioneer	U. S. Coast & Geodetic Survey
*James O. Jordan, 3rd	Belmont	U. S. C. G. Explorer	U. S. Coast & Geodetic Survey
*Joseph P. LaBranche	Haverhill	Tanker	Sun Oil Co.
*Frank N. Lang	Swampscott	Instructor of cadets	Admiral Billard Academy
*Edward J. Lavelle	Clinton	Special training	Sun Shipbuilding & Dry Dock Co.
Edgar S. Malone, Jr.	Wakefield	S. S. Metapan	United Fruit Co.
*Francis A. Massey, Jr.	Norwood	S. S. Explorer	American Export Lines
Charles R. McLoud	Gloucester	S. S. Steel Engineer	Isthmian Line
Frederick P. Melzar	Wilmington	Third officer	Eastern Steamship Lines
*Joseph K. L. Mignacca	Shrewsbury	Special training	Sun Shipbuilding & Dry Dock Co.
*Herbert A. Monk	So. Weymouth	U. S. C. G. Lydonia	U. S. Coast & Geodetic Survey
*Burton F. Nowell, Jr.	Melrose	S. S. Santa Lucia	Grace Line
Frederick P. Nyhan	Lawrence	At sea	United Fruit Co.
Paul D. O'Brien	Taunton	S. S. Delorleans	Mississippi Shipping Co.
*Stanley N. Ohlin	Belmont	U. S. C. G. Explorer	U. S. Coast & Geodetic Survey
*S. Lincoln Pattangall	Brockton	Special training	Bath Iron Works
*John S. Pendleton	Florence	Tanker	Sun Oil Co.
*Jack R. Powell	New Bedford	U. S. C. G. Explorer	U. S. Coast & Geodetic Survey
Leo Ranen	Salem	Deceased	
*Paul T. Roy	Worcester	U. S. C. G. Explorer	U. S. Coast & Geodetic Survey
*Robert F. Scudder	Hvannis	U. S. C. G. Oceanographer	U. S. Coast & Geodetic Survey
Rodger S. Smith	Greenfield	S. S. Otto	Barber Line
*Warren N. Smith	Marblehead	Special training	Sun Shipbuilding & Dry Dock Co.
*F. Lester Sprague, Jr.	Quincy	S. S. Arkansan	American Hawaiian Line
*Newell Sweeney	Brockton	Cadet Officer	Grace Line
*Lee Van Gemert	Quincy	S. S. Mobilube	Socony-Vacuum Oil Co.
*Robert B. Wells	Medford	Tanker	Sun Oil Co.
*James W. Wilson	Somerville	Special training	Sun Shipbuilding & Dry Dock Co.
*Martin E. Wirtanen	W. Barnstable	Special training	Sun Shipbuilding & Dry Dock Co.
*Arthur O. Wood, Jr.	Cohasset	U. S. C. G. Oceanographer	U. S. Coast & Geodetic Survey
*Gordon A. Wood	Groveland	S. S. Malantic	C. D. Mallory and Co.

*Appointed by the United States Maritime Commission.

Detailed Report on the Practice Cruise

Schoolship "Nantucket"—Itinerary 1940

Left	*Arrived at—*
Boston, May 11	Gloucester, May 12
Gloucester, May 17	Washington, May 21
Washington, May 28	Norfolk, May 29
Norfolk, June 1	St. Thomas, June 17
St. Thomas, June 20	San Juan, June 24
San Juan, June 28	Guantanamo, July 3
Guantanamo, July 8	Norfolk, July 16
Norfolk, July 19	Portland, July 24
Portland, July 27	Greenport, July 29
Greenport, August 2	Boston, August 4
Boston, August 9	Boothbay, August 10
Boothbay, August 12	New Bedford, August 14
New Bedford, August 20	East Lamoine, August 22
East Lamoine, August 30	Glen Cove, September 3
Glen Cove, September 9	Fall River, September 11
Fall River, September 16	Cataumet, September 17
Cataumet, September 22	Boston, September 23

The "Nantucket" departed from the Navy Yard, Boston, on Saturday, May 11. En route to Gloucester the radio compass was calibrated off the Boston Lightvessel, and the ship was swung for compass error.

Gloucester

The ship arrived at Gloucester on May 12. During the stay in Gloucester regular watch liberty was granted to cadets to 2000. Pulling boats were used entirely as running boats. General drills were held daily and sail drills, twice daily, except on the 16th which started wet and threatening, and a field day was held. Boats were out under sail daily. First year cadets were vaccinated and administered first anti-typhoid inocculation.

The "Nantucket" departed from Gloucester at 1047 on the 17th under two boilers. In view of the weather conditions it was decided to follow the outside route, around Nantucket Lightvessel. At 2025 on the 19th the third boiler was cut in so as to assure arrival at Washington by the evening of May 21. Church service was held as usual on Sunday. On Saturday there was considerable seasickness among cadets. Approaching the Chesapeake a fog bank hung over the entrance necessitating stopping and reduced speed from time to time. In vicinity of the lightvessel an aircraft carrier and two destroyers were operating. The ship anchored off Smith's Point, Potomac River entrance at 2119, and was underway again at 0550 on the 21st, proceeding up the Potomac. The prospects were not good as there was considerable fog, but it gradually cleared and a good run was made up the river. The ship arrived at the Navy Yard, Washington, at 1830, on May 21.

Washington

The visit to Washington was thoroughly enjoyed by the cadets and was very instructive. Usual watch liberty was granted cadets from 1330 to 2200. Numerous special leaves were granted cadets at the request of parents to visit relatives in and about Washington. Daily a member of the Schoolship Club called for cadets to take them on auto tours, 25 cadets being so entertained. Numerous comments on the cadets' fine appearance and good deportment were made. The second anti-typhoid inocculation was given first year cadets on May 23.

The ship was dressed at 0800 on the 22nd along with the "American Seaman". The "Potomac" and the Yard craft dressed an hour later. All the officers except the officer on duty attended the exercises on board the "American Seaman". We inspected

the vessel. She is handsomely appointed, beautifully painted, and spotlessly clean. The CCC enrollees were clean, alert, and seamanlike. Exercises were conducted by Mr. Telfair Knight. Senator Pepper and Congressman Peterson, both of Florida, were the principal speakers. Admiral Nimitz and Captain Gygax, as well as several other Naval Officers, attended.

The "Nantucket" got underway at 0800 on the 28th. As the tug "Choptank" was pulling our stern clear our new 5-inch line parted, but the stern was sufficiently clear for us to maneuver without further help. The usual honors were rendered when passing Mount Vernon. The run down the Potomac was made under three boilers. A bridge is being constructed across the river at Dahlgren. The run was uneventful and the ship anchored in the Bay at 2023 in the same anchorage used in going to Washington.

The ship was gotten underway at 0554 on the 29th to proceed to Norfolk. The weather was fine but the atmosphere was hazy. Man Overboard drill and fire and collision drills were held. The man overboard drill was executed as follows: Boat in water 1 minute 10 seconds; buoy picked up 4 minutes; boat hoisted 9 minutes 55 seconds. The ship anchored off the Naval Operating Base, Norfolk, at 1220 to await slack water for berthing. The ship berthed at 1515 on May 29th.

Norfolk

The visit of the "Nantucket" to Norfolk was in no way unusual. The usual watch liberty was granted cadets to 2200. May 30 was observed as a holiday. A quarter watch attended motion pictures at the Naval Base evenings. The ship was coaled on May 31st, taking on board 150 gross tons of Pocahontas coal from a flat lighter delivered alongside.

Pistol, and rifle ammunition were received on board from the Naval Magazine at St. Julian's Creek.

The "Nantucket" departed from the Naval Operating Base at 1115 on June 1, assisted by the Yard Tug "Tecumseh" from the dock, and proceeded to sea under two boilers. Upon clearing Chesapeake Light Vessel the ship was swung for compass deviation, the binnacle having been repaired so that the compensating magnets were free for adjustment. On the 6th, before daylight, a cruiser showing no lights approached to within a quarter of a mile and departed after identifying our ensign which was illuminated at the peak. We made our number to the stranger but he did not acknowledge nor disclose his identity.

Good sailing was had to the forenoon of the 10th, when, although the wind still held, steaming was resumed, as we were making too much to the eastward. For the 24 hours to noon of the 8th 202 miles were made good. That evening it was necessary to reduce sail as the ship began to labor, she had logged 9.5 knots close hauled the preceding hour. Upon getting under steam on the 10th, course was set to the southward and westward. Light westerly winds continued for another day, but on the 13th shifted to the eastward and by the 15th became strong enough for sailing and the ship proceeded under sail until the evening of the 16th when sail was furled preparatory to entering port the following morning, the ship being then about 40 miles from St. Thomas. In the afternoon of the 15th the motor launch was hoisted out to permit Commissioner Queen and cadets with cameras to take pictures of the ship under sail. Sombrero Cay, in Anagada Passage was passed abeam at 5 miles distance at 0800 on the 16th, and Virgin Gorda, the easterly of the Virgin Islands was raised at 1020.

Man overboard drills were held as follows:

	Boat in water	Buoy picked up	Boat hoisted
June 3	1 m	4.5 m	10 m
" 4	1 m	4 m	10 m
" 5	1 m	3.5 m	8 m
" 11	1 m	4 m	8 m
" 12	0 m 40 s	2 m 16 s	6 m 28 s
" 13	0 m 39 s	4 m 22 s	9 m 40 s

Studies and routine drills were conducted according to schedule. Church services were conducted on Sundays.

The "Nantucket" anchored in St. Thomas Harbor at 0633 on June 17.

St. Thomas

The visit to St. Thomas was pleasant and interesting. Regular watch liberty was granted cadets to 2000. Pulling boats were used entirely, the motor launch not being hoisted out. Boats were out under sail, and swimming was had over the side, daily. Numerous cadets indulged in horse-back riding. Conduct and spirit of cadets was excellent.

St. Thomas is treated as a foreign port as regard customs—it is practically a free port, a 6% duty only prevailing. Purchases must be declared on entering San Juan or a domestic port. The West Indies Company's dock is busy, vessels coming and going daily. The port does a considerable oil and coal bunkering business; and bauxite is brought from Demerara by light draft vessels and stored awaiting re-shipment in large vessels to Montreal.

Pointing drill, in preparation for target practice at Guantanamo Bay, was started while at St. Thomas and continued during the passage, Commissioner Queen superintending the instruction. The cadets did remarkably well. A number have shot before and some have qualified.

The ship went to the coal pier early in the morning of the 20th. Eighty-five gross tons had been placed conveniently on the dock the day before. The coal was put on board by the cadets, and trimmed by shore labor. Coaling was completed at 1050, and at 1120 the ship cast off from the pier and anchored to clean up before departure. The "Nantucket" departed from St. Thomas at 1500 on June 20 under two boilers.

Noonday temperatures at St. Thomas were as follows: June 17th, 82°; 18th, 87°; 19th, 81°; 20th, 83°.

At 1830 on the 20th, having cleared the Virgin Passage, the ship was put under sail; and stood off and on until 0700 of the 23rd, when course was set for San Juan. The ship was hove to this day 15 miles to the northward and eastward of San Juan at 0336, at daylight sail was furled, and the ship proceeded under two boilers to port. A pilot was taken on board and the ship anchored at 0917 on June 24.

San Juan

The visit to San Juan was agreeable and without incident. Regular watch liberty was granted to 2000. Pulling boats were used as running boats, and a few running trips were made under sail. Boats were out under sail daily. A large group of cadets visited El Yunque National Park. Many cadets went bathing at Escabron (here an inlet is fenced off against sharks and baracuda). Spirit and conduct of cadets were excellent.

During the stay at San Juan the ship's hull was painted. Small arms instruction was continued. Commissioner Queen departed for home on the 27th.

Noonday temperatures were as follows: June 24th, 86°; (90° at 1700); 25th, 89°; 26th, 88°; 27th, 86°.

The "Nantucket" got underway at 0900 on June 28 under two boilers, and when clear of the port, was put under sail. The day was given over to cleaning, and small arms instruction was continued. The following forenoon the coast of Santo Domingo was sighted and was skirted at about 10 miles distance. Church service was held on Sunday as usual. The Hatien coast was lost to sight in the forenoon of July 1, and shortly afterwards the Cuban coast was picked up.

Routine drills and studies were conducted on July 1; and small arms instruction was continued. At 1550, off Caleta Point, southeast end of Cuba, sail was furled and the ship put under steam. Man overboard drill was held as follows: Boat in water 1 minute 40 seconds; buoy picked up 4 minutes 50 seconds; boat hoisted 7 minutes 45 seconds.

At 0307 on July 2 the ship arrived off Guantanamo Bay entrance and lay to until daylight; proceeding in at sunrise, and anchoring at 0651.

Guantanamo Bay

The visit to Guantanamo Bay was advantageous to the cadets due to contact with the Navy there. On the rifle range cadets were supervised and coached by competent Marines who were interested in their work; at the Station cadets had opportunity to observe the attitude and conduct of service men in work and in recreation; and much signal practice was afforded. The sergeant major who supervised the small arms practice stated that the cadets' interest and apitude were extraordinary, and expressed surprise that they did so well with so little preliminary instruction. The firing covered three days, two days on the marksman course and one day on the sharpshooter course.

The motor launch was generally used as running boat, but pulling boats were also used. Boats were put under sail daily and good sailing experience was had. Liberty was granted by watches to 1700. A moving picture party of 25 was authorized nightly. The spirit and conduct of cadets were excellent; they enjoyed the stay in Guantanamo Bay in spite of the heat.

July 4 was duly observed. All ships present "dressed ship". In the morning cadets participated in a sailing race. A class of six small 2-man boats participated, two manned by marine officers, two by naval officers, and two by cadets. The cadets placed No. 2 and No. 4. All four of the cadets participating are products of the Quincy Yacht Club. In the afternoon the cadet baseball team played the marine team losing by the score of 24-4. There was no swimming from the ship as sharks and baracuda frequented the bay.

Noonday temperatures at Guantanamo Bay were as follows: July 2nd, 86° (93° at 1700); 3rd, 88°; 4th, 84°; (88° at 1800); 5th, 88°; 6th 86° (93° at 1800); 7th, 87°; and 8th, 87°.

The ship left Guantanamo Bay on July 8 at 1800 under two boilers.

Cape Maysi was rounded at noon, Great Inagua light was sighted in the early evening, and Crooked Island Passage was entered early the morning of the 10th. San Salvador Island was cleared that evening. Many vessels were sighted in this portion of the passage.

Drills and studies were conducted according to schedule. Man overboard drills were held as follows:

	Boat in water	Buoy picked up	Boat hoisted
July 9	0 m 45 s	2 m 40 s	11 m 20 s
" 10	0 50	4 00	11 50
" 11	0 45	3 50	11 10
" 12	0 45	4 20	9 20
" 15	0 45	3 15	6 50

Cape Hatteras Light Vessel was passed in the evening of the 14th. Many vessels were encountered along the coast. Chesapeake Bay was entered at 1720 July 15. The "Nantucket" anchored off the Naval Operating Base at 1950.

Norfolk

As at Norfolk, the anchorage was 1.3 miles from the boat landing the motor launch was used as running boat. Liberty was granted cadets by watches to 2000. A few cadets were granted special leave to visit relatives in Norfolk and vicinity.

Noonday temperatures at Norfolk were as follows: July 16th, 80° (85° at 1500); 17th, 78°; 18th, 81° (84° at 1300); 19th, 87°. The warm weather continued until the night of the 21st when the temperature dropped rapidly, falling 9° in one hour.

The "Nantucket" got underway under two boilers at 1130 on the 19th for Portland. The passage was uneventful except that fog was encountered off Nantucket Shoals lightship which was passed shortly after midnight on the 21st. Cape Cod light was sighted and was passed the night of the 22nd. From then on there was much fog. The ship arrived off Portland light ship at 1000 on the 23rd and there maintained station, steaming at slow speed to effect arrival as scheduled.

Routine drills and studies were conducted during the passage. Man overboard drills were held as follows:

	Boat in water	Buoy picked up	Boat hoisted
July 22	0 m 50 s	2 m 55 s	7 m 20 s
" 23	0 m 55 s	2 m 20 s	7 m 10 s

The fog was very heavy off Portland. It lifted for a few hours during the night, but then closed in again, and at 0700, when it was intended to go in, visibility was zero. At 1130 conditions improved and the ship moved in slowly to the lightship where visibility was 1½ miles. As it was thought that conditions inside would be better the ship continued in and, conditions improving, anchored at 1400, July 24. The anchorage is about ⅝ miles from the boat landing.

Portland

Groups of some twenty cadets were sent to the factory of the Loughlin Marine Hardware Company and the United States Lighthouse Depot where an exhibit of Lighthouse Service material was on display showing the evolution of aids to navigation.

Regular watch liberty was granted cadets to 2000, and numerous cadets were granted special liberty at request of parents. Pulling boats were used entirely. Visitors were received on board in the afternoons, being transported in ship's boats as space was available.

The "Nantucket" got underway at 1102 on July 27 for Greenport. Visibility was low throughout the passage; and, as Pollock Rip was approached early on the 28th, the fog shut in. The ship was anchored near the lightship for an hour. As Stonehorse Lightvessel was passed the fog shut in again, but lifted as Cross Rip was approached. The "Nantucket" anchored in Gardner's Bay at 2351 on July 28. Many yachts were encountered as Martha's Vineyard was approached and from there on. The ship got underway on the morning of July 29 and proceeded into Greenport Harbor, anchoring at 0715.

Greenport

The visit to Greenport was a pleasant one. Regular watch liberty was granted cadets to 2000. A number of cadets were granted special liberty to visit relatives in the vicinity, and some who had received special invitations were granted extension of liberty to 2200. Pulling boats were used entirely as running boats. The Cadet baseball team played a game with a town team and was beaten by the score of 12 to 4. Studies were conducted in the forenoons. Several complimentary comments on the behavior of the cadets ashore were heard.

The "Nantucket" got underway at 1050 on August 2 for Boston. Church service was held on Sunday. Man overboard drill was held as follows: Boat in water 0 minutes 55 seconds; buoy picked up 3 minutes 5 seconds; boat hoisted 7 minutes 15 seconds.

The ship arrived in Boston on August 4 and remained at the Navy Yard, Charlestown, until August 9 when departure was made at 1530 for Boothbay, Maine, clearing Boston Lightship at 1806. The weather was fine, and visibility was very good.

The "Nantucket" anchored in Boothbay Harbor at 1017 on August 10.

Boothbay

Regular watch liberty was granted cadets to 2000. Several cadets, whose relations were in the vicinity, were granted special liberty. Cadets of the first and second classes of liberty watch were granted extension of liberty to midnight to attend a dance sponsored by the Junior League. A baseball party went ashore for practice Saturday afternoon, and on Sunday the team played the Boothbay team (semi-professional) being beaten by the score of 9-6. Pulling boats were used entirely as running boats. Catholic and Protestant church parties were sent ashore. Many

visitors came on board. The harbor was full of pleasure boats of all descriptions. Noonday temperatures were as follows: August 10th, 75°; 11th, 61°; and 12th, 64°; the spirit and conduct of cadets were excellent.

The "Nantucket" got underway at 1814 on August 12 for New Bedford. Seguin Island was cleared at 2030, and course was set for Cape Cod. Pollock Rip Entrance Buoy was passed at 0022, on the 14th, but it was soon noted that visibility was low in Stonehorse Channel, none of the navigation lights showing, so the ship was put about, and finally anchored at 0125. The fog lifting at about 0730, the ship got underway at 0752 and proceeded over the shoals. It had been intended to proceed by the outer route, around Nantucket South Shoals, but speed had been so reduced by head winds, that the shorter route was taken to ensure arrival at New Bedford as scheduled.

Routine drills and studies were held. Man Overboard drill was held as follows:

	Boat in water	Buoy picked up	Boat hoisted
August 13	0 m 55 s	2 m 40 s	5 m 40 s
August 14	0 m 40 s	4 m 50 s	9 m 50 s

Many yachts were met in Nantucket and Vineyard Sounds in the vicinity of Nobska Point. The "Nantucket" arrived at New Bedford and berthed at Homer's Pier, adjacent to State Pier, at 1844, August 14.

New Bedford

During the stay at New Bedford routine drills and studies were conducted during the forenoon and regular watch liberty was granted cadets afternoons. Special liberty was granted to cadets living in the vicinity. Church parties were sent ashore on Sunday. The cadet baseball team played a local team, being beaten by the score of 7 to 0 in a good game.

Homer's Wharf, where the "Nantucket" berthed, is an old whaler wharf, taken over by the city and restored by WPA. It affords excellent berthing. Being an open pier, many people came to see the ship; and on Sunday, a great many visitors came on board.

The ship was coaled on the 19th taking 30 tons. It was intended to depart from New Bedford after coaling; but a heavy fog prevailed which persisted outside throughout the day, so that departure was deferred to the following day. The ship got underway at 0600 on the 20th.

Crossing the Gulf of Maine strong head winds were encountered. After noon of the 21st the wind died down. Martinicus Light was sighted before midnight, and Frenchman's Bay was entered at 0900 on August 22, the "Nantucket" anchoring at East Lamoine at 1106. Fore and aft sail was used to a considerable extent during the passage. Visibility on August 21 was the most remarkable ever met with, lights must have been miraged, Mt. Desert Light was seen at almost twice the normal range.

East Lamoine

The stay of the "Nantucket" at East Lamoine was utilized as planned for holding of term and final examinations. The weather, while cool, was generally fine; and the examinations were carried on as scheduled. Shore liberty was granted only at the week-end by watches, and was utilized by the cadets for hiking and blueberrying. A few cadets whose parents were in the vicinity were granted special liberty. Pulling boats were used entirely as running boats. Boats were out under sail daily. Several clamming parties went out and on one occasion a small group of cadets dug enough clams for a meal for the entire cadet corps. A few parents of cadets came on board to see their sons. Visiting was restricted to after examination hours. Church service was held on Sunday.

On arrival the Superintendent called on Professor Murray of the University of Maine who is in charge of the Marine Biological Laboratory which uses the old Navy Coaling Station. He very kindly permitted us use of the pier and float.

The "Nantucket" got underway under two boilers at 1152 on August 30, cleared Mt. Desert Rock at 1800, and headed for Cape Cod. It was intended to proceed via the outside route, around Nantucket South Shoals; but, on hurricane warnings being

received, the course was laid for Provincetown for refuge. Speed was much reduced by the head winds, and much fog was encountered. The ship was anchored in Cape Cod Bay, south of Wood End Light, in heavy fog at 0540 on September 1. After the fog lifted, a few hours later, the ship was gotten underway and headed for the Cape Cod Canal. At the Canal entrance, Captain Colbeth came on board to pilot through. He reported heavy sea in Block Island Sound and advised anchoring in upper Buzzards Bay. A third boiler was cut in shortly after entering the Canal. The Canal was cleared at 1417, and the ship was anchored off Sippian Harbor at 1443. Numerous vessels were anchored in the vicinity waiting for moderating weather. Southeast storm warnings were hoisted as we emerged from the Canal. The weather moderated during the evening, but towards morning of September 2 the wind shifted to the northeast and blew hard, easing up towards 0900. The ship got underway at 1020, under three boilers, and proceeded to the westward. By this time the weather had become fine with fresh north westerly winds. This being Labor day was observed as a holiday.

Man Overboard drill was held as follows: Boat in water 1 minute 14 seconds; buoy picked up 4 minutes 58 seconds; boat hoisted 11 minutes 18 seconds; on August 30.

The run to Glencove was uneventful except that fog was encountered approaching the Race and visibility was reduced to less than a mile. After passing the Race visibility improved and gradually became normal. The "Nantucket" arrived off Hempstead Harbor at 0440 on September 3 and lay to until daylight, when the harbor was entered and the ship anchored at 0700.

Glen Cove

The stay of the "Nantucket" at Glen Cove was devoted chiefly to liberty for the cadets to visit the World's Fair. Extended liberty was granted from 1330 one day to 0900 the second day following, by watches; and thereafter, regular watch liberty to 2000. A baseball game was played on Saturday with Glen Cove team in which our team was beaten by the score of 8-0. On Sunday a one mile cutter race, in our cutters was pulled against the Glen Cove Sea Scouts, which ended in a tie. Pulling boats were used entirely, the motor launch not being hoisted out.

Glen Cove is an excellent harbor, and it is a considerable yachting center. The anchorage was 5/8 mile from the boat landing. There was a small public landing adjacent to the New York Yacht Club landings and boat house. The facilities of the Yacht Club were placed at our disposal. As there was a custodian present and a telephone available it was most helpful. Arrangements were made for signalling from shore to ship. Spirit and conduct of cadets were excellent. Church service was held on board on Sunday. On Saturday there were hundreds of yachts in sight from the ship. New Rochelle and Larchmont are opposite Glen Cove.

The "Nantucket" got underway at 0620 on September 9 under two boilers for Fall River. The passage down the Sound was uneventful. Block Island was passed at 2220, and the ship lay to about eight miles to the eastward of the island. Heavy fog shut in, and when clear at about 1345 on the 10th, the ship proceeded into Narragansett Bay, anchoring in Potter's Cove, Connanicut Island, at 1534. The ship was gotten underway at 0630 on September 11 and proceeded to anchorage at Fall River, anchoring at 0916.

Man overboard drills were held as follows:

	Boat in water	Buoy picked up	Boat hoisted
September 9	1 m 10 s	3 m 00 s	5 m 00 s
" 10	1 m 17 s	4 m 27 s	7 m 12 s

Fall River

During the stay at Fall River extended liberty was granted cadets by watches, one watch remaining on board during the absence of the other. Pulling boats were used entirely as running boats. The ship was open to visitors during the afternoons and many visitors came on board especially on Saturday and Sunday. There being only one watch on board, church service was held on board on Sunday.

The "Nantucket" left Fall River at 1610 on September 16 for Cataumet. On leaving Narragansett Bay a heavy southeasterly swell was encountered and the ship rolled considerably until reaching Buzzards Bay. The "Nantucket" anchored off Megansett Harbor at 2344. At 0644 on September 17 the ship got underway and moved into the harbor, anchoring at 0708.

The ship remained at Cataumet until September 22 when she proceeded to Boston arriving at the Navy Yard, Charlestown, on September 23.

Cruise Mileage

	Days	*Hours*	*Minutes*	*Miles*
Steam	27	15	38	3,704
Sail	14	11	09	1,893
Steam and sail	13	22	42	2,218
Total at sea	56	01	29	7,815
In port	78	19	32	
Total for voyage	134	21	01	7,815

Coal Report

The following is a report of coal consumption for the cruise of 1940:

On hand and received	674 tons
Expended	627 tons
Remaining, September 28	47 tons

Items

Moving ship	351 tons
Dynamos and Auxiliaries	204 tons
Distilling	61 tons
Galleys	11 tons
Total expended	627 tons

The School Record

During the year there have been 182 students on the rolls of the school. They came from 82 cities and towns of the Commonwealth as follows:

Arlington	5	Hull	1	Reading	1
Attleboro	1	Hyannis	1	Revere	2
Beachmont	1	Lawrence	6	Salem	2
Belmont	6	Leicester	1	Saugus	1
Billerica	1	Leominister	1	Shelburne Falls	1
Boston	21	Longmeadow	1	Shrewsbury	1
Braintree	3	Lowell	2	Somerville	7
Brant Rock	1	Lynn	1	So. Attleboro	1
Brockton	3	Malden	2	Springfield	5
Brookline	1	Mansfield	1	Stoughton	1
Clinton	2	Marblehead	3	Swampscott	1
Cohasset	1	Marlboro	1	Taunton	4
Concord	3	Mattapoisett	1	Thorndike	1
Duxbury	1	Medford	3	Touisset	1
Everett	2	Melrose	4	Wakefield	2
Fairhaven	2	Natick	4	Waltham	1
Fall River	2	Needham	2	Watertown	1
Florence	3	New Bedford	3	West Barnstable	1
Foxboro	1	Newburyport	1	Westfield	2
Gilbertville	1	Newton	2	Weston	1
Gloucester	2	North Adams	1	Weymouth	2
Grafton	1	Northampton	5	Wilmington	1
Great Barrington	1	Norwood	1	Winchester	1
Greenfield	2	Peabody	2	Winthrop	3
Groveland	1	Pepperell	1	Wollaston	4
Haverhill	2	Pittsfield	1	Worcester	1
Hingham	1	Provincetown	1		
Hudson	1	Quincy	8		
Total					182

The previous education of these students was as follows: high schools, 162; academies, 8; preparatory schools, 6; colleges, 4; technical schools, 2. The average age of the cadets at entrance was 18 years, 4 months. The number of cadets enrolled in the school at present is 114.

Officers and Instructors

Clarence A. Abele, Captain, U.S.N. (retired), Supertintendent.
John W. Thompson, (graduate M.N.S.), Executive Officer.
Richard T. Rounds, Lieutenant, U.S.N.R., (graduate M.N.S.), Navigator.
James T. Hodgson, Ensign, U.S.N.R., (graduate M.N.S.), Watch Officer.
William J. Connors, Lieutenant, j.g., U.S.N.R., (graduate M.N.S.), Watch Officer.
Ervin L. Kelley, Lieut. Comdr., U.S.N.R., (graduate M.N.S.), Chief Marine Engineer.
John R. Hickey, Ensign, U.S.N.R., (graduate M.N.S.), Assistant Marine Engineer.
Samuel A. Stone, Instructor in Mathematics.
Charles M. Taylor, Instructor in Mechanical Drawing.
Daniel L. Mooney, M.D., Surgeon, Summer Term.
Ashton Graybiel, M.D., Surgeon, Winter Term.
Charles Parker, Paymaster.

Cadet Officers of the Massachusetts Nautical School
Summer Term

Navigation

Emerson H. Hiller . . . . . *Senior Cadet Officer*
Frederic P. Melzar . . . . . *Junior Cadet Officer*

Engineering

Warren N. Smith . . . . . *Senior Cadet Engineer Officer*
Joseph K. L. Mignacca . . . . . *Junior Cadet Engineer Officer*

WINTER TERM, 1940-41

Navigation

Robert J. Cheever . . . . . *Senior Cadet Officer*
Edwin J. Shuttleworth . . . . . *Junior Cadet Officer*

Engineering

Cornelius E. McMullen . . . . . *Senior Cadet Engineer Officer*
Andrew Pierce . . . . . *Junior Cadet Engineer Officer*

GRADUATION EXERCISES

The ninety-first graduation exercises were held in the Naval Reserve Armory, Building No. 5, Navy Yard, Charlestown, on Tuesday, April 2, 1940, at 11 A. M. The program was as follows:

Prayer: Capt. Thomas B. Thompson, (Ch.C.), U.S.N., Navy Yard, Charlestown.

Presiding Officer: Mr. Clarence E. Perkins, Chairman of the Commissioners of the School.

Address: Mr. Charles F. Dutch, President, Propeller Club. Chairman of the Maritime Association of the Boston Chamber of Commerce.

Address: Rear Admiral William T. Tarrant, U.S.N., Commandant of the Navy Yard.

Prize awarded by the Boston Marine Society to the graduate excelling in those qualities making for the best shipmaster, including aptitude, prompt and cheerful obedience to his superior officers. devotion to duty, integrity, force of character, and ability to attain and maintain leadership. Presented by Capt. Charles H. Hurley, Vice-President, Boston Marine Society, to N. Curtis Bliven, of Malden.

Prizes awarded by Mr. Arthur M. Wiggin of Brookline to the graduates in the Seamanship Class and in the Engineering Class making the greatest improvement in all around work during the past year. Presented by Mr. Wiggin to Edward F. Carl of Roslindale, Seamanship Class; Dominic Digiacomo of Natick, Engineering Class.

Prize awarded by The Society of the War of 1812 to the engineer graduate for excellence in studies, good coduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States. Presented by Philip R. Calder to Forrest L. Bryan of Westfield.

Prize awarded by the Massachusetts State Society, United States Daughters of 1812, to the graduate in the engineering division standing highest in engineering and electricity. Presented by Mrs. Milburn Edgar Yeager, President of the Society, to Dominic Digiacomo of Natick.

Prize awarded by Mr. William H. Dimick, Secretary of the Board, to the graduate receiving the highest final average. Presented by Mr. Dimick, to Edgar S. Malone, Jr. of Wakefield.

Presentation of Bibles given by the Massachusetts Bible Society: Dr. Frank K. Singiser, Secretary, Massachusetts Bible Society.

Presentation of Diplomas: Mr. A. Russell Mack, Supervisor of Secondary Education, Massachusetts Department of Education.

The ninety-second graduation exercises were held in the Naval Reserve Armory, Building No. 5, Navy Yard, Charlestown, on Tuesday, October 1, 1940, at 11 A. M.

Prayer: Capt. Thomas B. Thompson, (Ch.C.), U.S.N., Navy Yard, Charlestown.

Presiding Officer: Lieut. Comdr. Walter K. Queen, U.S.N.R., Retired Chairman of the Commissioners of the School.

Address: Hon. Leverett Saltonstall, Governor of the Commonwealth.

Address: Capt. Howard G. Copeland, U.S.N.R., Navy Department, Washington, D. C.

Address: Mr. Telfair Knight, Acting Director, Division of Training, United States Maritime Commission, Washington, D. C.

Address: Capt. Robert M. Gray, Assistant Supervisor of Cadet Training, United States Maritime Commission, Washington, D. C.

Address: Hon. John F. Fitzgerald, Boston Port Authority.

Prize awarded by the late Irving L. Wood to the graduate of the year 1940 having the highest mark in Seamanship and Navigation. Presented by Mr. Theodore L. Storer, Commissioner of the School, to F. Lester Sprague, Jr. of Quincy.

Prize awarded by the Boston Marine Society to the graduate excelling in those qualities making for the best shipmaster, including apitude, prompt and cheerful obedience to his superior officers, devotion to duty, integrity, force of character, and ability to attain and maintain leadership. Presented by Capt. Charles H. Hurley, Vice-President, Boston Marine Society, to Lee Van Gemert of North Quincy.

Prizes awarded by Commissioner Arthur M. Wiggin of Brookline to the graduates in the Seamanship Class and in the Engineering Class making the greatest improvement in all around work during the past year. Presented by Mr. Wiggin to Arthur O. Wood, Jr. of Cohasset, Seamanship Class; Oliver P. Coté, Jr. of Lowell, Engineering Class.

Prize awarded by The Society of the War of 1812 to the engineer graduate for excellence in studies, good conduct, and the possession of those qualities of leadership and a willingness to assume responsibility which have ever characterized the Navy and Merchant Marine of the United States. Presented by Col. Frederic Gilbert Bauer, to Warren N. Smith of Marblehead.

Prize awarded by the Massachusetts State Society, United States Daughters of 1812 to the graduate in the engineering division standing highest in engineering and electricity. Presented by Mrs. Milburn Edgar Yeager, past President of the Society, to Warren N. Smith of Marblehead.

Prize awarded by Mr. William H. Dimick, Secretary of the Board, to the graduate receiving the highest final average. Presented by Mr. Dimick to S. Lincoln Pattangall, Jr. of Taunton.

Presentation of Bibles given by the Massachusetts Bible Society: Dr. Frank K. Singiser, Secretary, Massachusetts Bible Society.

Presentation of Special Diploma to Lieut. Comdr. Walter K. Queen, U.S.N.R. by Commissioner Storer.

Presentation of Diplomas: Mr. A. Russell Mack, Supervisor of Secondary Education, Massachusetts Department of Education.

Cadets Admitted, Graduated, and Honorably Discharged, from 1893, to 1940, Inclusive

	Admitted	Graduated			Honorably discharged	Withdrawn, dismissed, dropped	Number connected with the school
		Seamanship Class	Engineer Class	Totals			
1893	141	—	—	—	29	24	138
1894	63	—	—	—	43	18	156
1895	71	19	19	38	12	6	156
1896	74	20	17	37	31	17	174
1897	73	20	21	41	20	9	165
1898	99	15	25	40	26	23	194
1899	79	11	12	23	41	11	184
1900	78	14	36	50	21	14	186
1901	71	11	18	29	20	16	172
1902	90	16	22	38	34	13	197
1903	66	17	14	31	25	17	178
1904	60	16	29	45	17	31	165
1905	65	10	10	20	9	13	137
1906	50	16	19	35	18	19	145
1907	60	10	15	25	17	26	138
1908	45	8	10	18	9	9	110
1909	81	14	22	36	7	16	156
1910	54	6	16	22	16	15	151
1911	69	20	23	43	7	18	168
1912	57	17	16	33	14	15	157
1913	79	21	19	40	20	8	174
1914	65	20	16	36	22	7	171
1915	70	26	19	45	18	11	176
1916	73	23	15	38	36	3	175
1917	69	26	11	37	16	3	167
1918	66	31	17	48	10	4	178
1919	77	37	18	55	17	5	193
1920	70	35	15	50	13	9	186
1921	70	35	17	52	9	9	184
1922	74	29	21	43	19	9	188
1923	77	27	16	50	16	16	187
1924	76	23	21	44	13	16	188
1925	73	26	22	48	18	8	188
1926	80	19	22	41	22	21	194
1927	75	27	17	44	20	4	185
1928	69	27	20	47	15	7	187
1929	71	23	29	52	12	7	189
1930	62	33	19	52	8	3	180
1931	74	38	19	57	6	9	191
1932	50	23	22	45	2	3	169
1933	65	40	30	70	5	1	184
1934	55	20	20	40	4	1	163
1935	68	40	22	62	7	2	186
1936	58	26	19	45	4	4	172
1937	61	36	24	60	1	—	180
1938	60	36	21	57	3	1	179
1939	61	36	23	59	2	—	179
1940	64	34	24	58	10	—	182
Totals	3,358	1,077	902	1,979	764	501	

MEMBERSHIP OF THE SCHOOL

Graduating Class, April 1940

*Received 85 percent, or over, of the academic multiple, and entitled to wear gold star on coat collar.

†Appointed merchant marine cadet, U. S. Naval Reserve.

Seamanship Division

Name	*Residence*
*†Malone, Edgar S., Jr.	Wakefield
†Collins, Atwell G.	Quincy
†Sweeney, Newell	Brockton
†McLoud, Charles R.	Gloucester
†Bliven, N. Curtis	Malden
†Ohlin, Stanley N.	Belmont
†Nowell, Burton F., Jr.	Melrose
†Christianson, Frederick R. M.	Arlington
†Lang, Frank N.	Swampscott
†Carl, Edward F.	Roslindale
†Roy, Paul T.	Worcester
†Folsom, Samuel B.	Peabody
†Massey, Francis A., Jr.	Norwood
†Powell, Jack R.	New Bedford
†Scudder, Robert F.	Hyannis

Engineering Division

†Christiansen, Arnold R.	Arlington
Digiacomo, Dominic	Natick
†Congdon, Bernard R.	Foxboro
†Bryan, Forrest L.	Westfield
†Howes, Wallace A., Jr.	Northampton
†DesChamps, Arthur J.	Natick
Breen, Wilfred P.	Medford
†Andrews, James M., Jr.	Revere
†Wood, Gordon A.	Groveland
†Lavelle, Edward J.	Clinton
†Birmingham, Raymond F.	Wollaston
†Hartford, Arnold E.	Haverhill
†FitzGerald, Donald J.	Westfield
†Wilson, James W.	Somerville
†Wirtanen, Martin E.	West Barnstable

Graduating Class, September 1940

Seamanship Division

*†Pattangall, S. Lincoln, Jr.	Brockton
*†Sprague, F. Lester, Jr.	Quincy
†Curtice, Reginald M.	Belmont
†Van Gemert, Lee	North Qunicy
†Hiller, Emerson H.	Mattapoisett
†Foster, Walter S.	Wollaston
†Jordan, James O., 3rd	Belmont
†Smith, Rodger S.	Greenfield
†Dickie, Rodman L., Jr.	Arlington
†Dee, Donald W.	Taunton
†Melzer, Frederick P.	Wilmington

†O'Brien, Paul D. . . . . Taunton
†Christophers, Edward A. . . . . Fall River
†Wood, Arthur O., Jr. . . . . Cohasset
†Jennings, Norman V. . . . . Somerville
†Doell, Charles H. . . . . West Roxbury
†Cates, Robert P. . . . . Winthrop
†Monk, Herbert A. . . . . South Weymouth
†Ranen, Leo . . . . . Salem

Engineering Division

†Smith, Warren N. . . . . Marblehead
†Coté, Oliver P. . . . . Lowell
†Mignacca, Joseph K. L. . . . . Shrewsbury
†Fisher, Kenneth . . . . . New Bedford
†LaBranche, Joseph P. . . . . Haverhill
Nyhan, Frederick P. . . . . Lawrence
†Wells, Robert B. . . . . Medford
†Pendleton, John S., Jr. . . . . Florence
†Eaton, Lewis S. . . . . Provincetown

Class to Graduate, March 1941

Seamanship Division

†Kimberley, Jack, Jr. . . . . Medford
†Cheever, Robert J. . . . . Belmont
†Marcus, Philip . . . . . Dorchester
†Buckwalter, George E. . . . . Pittsfield
†Shuttleworth, Edwin J. . . . . Quincy
†McCollom, James C. . . . . Winthrop
†Stetson, Herbert A., Jr. . . . . Fairhaven
†Auditore, Concetto J. . . . . Beachmont
†Carlson, John G. . . . . Winchester
†Soule, Dorance A. . . . . Needham
†Emerson, Edward W. . . . . Concord
†Chapman, Clarence A. . . . . Reading
†Wentworth, Leigh A. . . . . Natick

Engineering Division

†Kean, Richard W. . . . . Concord
†McMullen, Cornelius E. . . . . Fall River
†Pierce, Andrew . . . . . Malden
†Coyle, Francis A. . . . . South Braintree
†Young, Rollin T. . . . . Quincy
†Wallace, William N., Jr. . . . . Springfield
†O'Dowd, Joseph M. . . . . Lawrence
†Popp, Walter F. . . . . Taunton
†Trowbridge, Herbert W. . . . . Stoughton
†Carson, Edward . . . . . Allston
†Dragon, Arthur H. . . . . Northampton
†Hicks, Howard R. . . . . East Braintree
†Whittaker, Robert J. . . . . West Roxbury
†Sumner, Robert L., Jr. . . . . South Attleboro
†Graham, John F. . . . . Arlington

Class to Graduate, September 1941

Seamanship Division

†*Curtin, Robert J. . . . . Boston
†*Howell, John J., Jr. . . . . Dorchester
†Rogers, Donald K. . . . . Wollaston

†Farrell, Albert H.	Shelburne Falls
†Duffy, George W.	Newburyport
†DiCori, Ralph	Watertown
†Stevenson, George B.	Touisset
†Hutchinson, Edward H., Jr.	Hingham
†Carman, James R.	Springfield
†Genova, Fiori P.	West Newton
†Stevens, Charles R.	Revere
†Burns, George L., Jr.	North Quincy
†McLean, Odber R., Jr.	Belmont
†Ball, William B., Jr.	Marblehead
†Coffey, James J.	Peabody
†Light, Malcolm E.	Springfield

Engineering Division

†*Donohoe, Edward R.	Lawrence
†Savage, Charles E., Jr.	Marlboro
†Swanson, Linwood G.	Somerville
†Schmidt, Edwin A.	Lawrence
†Bougess, Ernest S.	Everett
†Yager, John W.	Leominister
†Foley, Joseph	West Roxbury
†Johnson, David H.	North Weymouth
†Kingston, Waldo H.	Needham
†McGrath, James W.	Springfield
†Howe, William R.	Mansfield

Class to Graduate, March 1942

†Winslow, Charles B.	Quincy
†Dougherty, Austin L.	Waltham
†Orpin, Wallace B.	Allston
†Larsen, Clifford S.	Quincy
†Olsen, Harold A.	Concord
†Schofield, James E.	Clinton
†Frisch, Alfred J.	Lawrence
†Pierce, Leonard A.	Taunton
†Spollett, Frederick	Melrose
†Skopetz, Alexander S.	Somerville
†Bailly, John W.	Boston
†Johnson, Charles J., Jr.	New Bedford
†Patterson, W. Lee	East Braintree
†Crowley, Robert D.	Lynn
†Pyatt, Robert S.	Newton
†Shershun, Alexander	West Somerville
†Greatchus, Francis J.	East Pepperell
†Bausch, William C.	Allston
†Sturges, P. Frank	Weston
†Phelps, James W.	Northampton
†Gibson, Andrew E.	Brighton
†MacLeod, William F.	Hull
†L'Esperance, Anthony B.	Hudson
†Benton, Ralph K.	Natick
†Johnson, Warren C.	Belmont
†Subocz, Joseph T.	Florence
Murphy, James J., Jr.	Dorchester
†Sweeney, James A.	East Boston
†Narkin, Israel	Springfield
†O'Maley, Roger L.	Gloucester

Class to Graduate, September 1943

(Alphabetically arranged)

Bamberg, Charles E.	Arlington
Barr, William H.	Marblehead
Berry, Robert M.	Somerville
Birdsall, Robert C.	Melrose
Bona, Ugo	Northampton
Costello, Redmond J.	Hyde Park
Coté, Herve J.	Lowell
Davis, George A.	Duxbury
Donovan, Thomas J.	Winthrop
Fennessy, John T.	Dorchester
Field, Edward A.	Billerica
Forrest, Martin J., Jr.	Melrose
Gillespie, William	Grafton
Glasheen, William M., Jr.	Northampton
Gorczyca, Henry L.	Salem
Huegel, Albert C., Jr.	Roslindale
Lessoff, Bertram L.	Dorchester
Lucas, Francis L.	Attleboro
Morrison, Stuart L.	Gilbertville
Murphy, William R., Jr.	Leicester
MacPhee, C. Norrie	Brookline
McCabe, Edward F.	Somerville
Parthenais, Richard J.	Lawrence
Pitman, George A.	Saugus
Silta, William H.	Great Barrington
Strzemienski, Clarence J.	Thorndike
Sullivan, Charles L., Jr.	Brockton
Taylor, William M.	Brant Rock
Wiedemann, George F.	Hyde Park

FINANCIAL STATEMENT

Appropriations

The appropriations for the school for the fiscal year 1940, from December 1, 1939, to November 30, 1940, are accounted for as follows:

Expenses of Schoolship	*Appropriations*	*Expenditures*
Personal Services	$48,000.00	$45,521.22
Travel, transportation and office expenses	845.23	1,127.08
Food	24,500.00	23,751.61
Furnishings and household supplies	1,000.00	1,570.73
Medical and general care	1,300.00	1,129.08
Heat, light, power, etc.	8,250.00	5,819.00
Repairs, ordinary	1,900.00	2,409.03
Miscellaneous	2,700.00	1,496.91
Brought froward from 1939 appropriation	213.31	
	$88,708.54	$82,824.66
Unexpended balance		*5,883.88
	$88,708.54	$88,708.54
Expenses of Commission		
Office supplies and equipment		$229.92
Traveling and other services and expenses		1,860.31
	$2,093.70	$2,090.23
Unexpended balance		3.47
	$2,093.70	$2,093.70
Personal Services		
Commissioners' office	$5,094.00	$5,094.00
*$300.14 outstanding bills		
Income		
Received from Navy Department	$25,000.00	
Received from tuition and other fees	12,003.62	
Other Income	5.11	
	$37,008.73	

Financial Statement Verified.
Approved: WALTER S. MORGAN,
Comptroller.

Respectfully submitted,

WALTER K. QUEEN, *Chairman*
THEODORE L. STORER
ARTHUR M. WIGGIN

Commissioners.

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BOOKBINDING CO., INC.

MAY 1991

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